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CHEMIST AND DRUGGIST
or RETAILER — WHOLESALER — MANUFACTURER
FEBRUARY 18, 1950

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The
CHEMIST AND DRUGGIST
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NEWS OF THE WEEK

Drug Tariff Amendments.—A list of ıendments to the January issue of the ıational Health Service Drug Tariff has en circulated to contractors.

D.D. Authorities Withdrawn.—The ɔme Secretary has withdrawn from James terson, M.B., Ch.B., Lower House, Lep-n, Huddersfield, Yorks, the authorities anted him under the Dangerous Drugs t Regulations.

Foot Health Week.—A National Foot ealth Week now being organised for ne 12-17 by the Foot Health Educa-nal Bureau, 121 Ebury Street, London, W.1, will include an exhibition to be ened by Sir Wilson Jameson at Central all, Westminster, London, S.W.1.

Naming of Pest Control Chemicals.—A chnical committee has been set up by e British Standards Institution to devise nple names for pest control chemicals. ıe names devised will not conflict with oprietary names but provide users with ort, everyday names by which the active gredients of products may be known.

Hospital Changes.—An order (S.I.1950 No. 161), made by the Ministry of Health on January 30, excludes the Belgrave Hospital for Children (under the name King's College Hospital, Minstead, Hants) from the designated "teaching" hospitals. The Rosemeade Recovery Home, Walton-on-Thames, has been included in the group. Amendments to the Hospitals' Directory (November 1949) were issued recently by the Ministry of Health.

Ministry's Panel of Pharmacists.—The following have been appointed by the Ministry of Health to form the Panel of Registered Pharmacists from which the chemist (practitioner) member of the tribunal set up under the Act is to be selected for each case:—Messrs. B. P. Davies, M.P.S., P. Dobson, Ph.C., D.B.A., F.S.M.C., G. H. M. Graham, M.P.S., A.R.P.S., T. Heseltine, M.P.S., D. W. Hudson, M.P.S., and D. E. Sparshott, M.P.S.

Campaign Against Gift Schemes.—Aberdeen Pharmaceutical Association is appealing to pharmacists throughout the

country to support the Association in a campaign to ban free-gift schemes on the grounds that they are fundamentally wrong (a) economically (creating a false demand for a short time with an abrupt fall in demand as soon as the schemes are withdrawn), (b) psychologically (suggesting to the public that either the quality of the product is impaired or that he is ordinarily being overcharged); and (c) socially (pandering to a "something for nothing" complex).

Women Pharmacists' Dinner.—About 130 members and friends of the National Association of Women Pharmacists attended a dinner and dance organised by the Association in London on February 8. Miss E. F. Hayward (president) was in the chair. Mr. H. Clement Shaw (president of the Pharmaceutical Society), the chief guest, replied to the toast of "The Society" proposed by Miss D. M. Jones. He said that the statistical report on pharmaceutical man-power had been completed and would be considered by the Council at its March meeting. Among the facts it showed was that, owing to marriage and other factors, the expectancy of professional life of a woman pharmacist on qualifying was half that of a man. He looked forward to the time when women would be among those representing pharmacy in Parliament. Mr. E. Neville Brown proposed the toast of "The Association" and Miss Hayward replied. The founder-members of the Association in 1905, she said, had possessed courage, patience and vision, and she urged that members should keep those qualities in mind. Miss D. Murgatroyd proposed, and Mr. C. Norman plied to the toast "The Gentlemen." Pri raffled during the evening realised £5 for Birdsgrove House fund.

Pharmacists' Pilgrimage.—A Holy Y pilgrimage, sponsored by and restricted members of the Catholic Pharmaceuti Guild, will leave Britain for Rome September 1, and it will join forces th with chemists from every part of the wo attending the International Congress Catholic Pharmacists, September 2-12. T return journey will be completed on S tember 15. At the Congress, papers ready translated into several languages) the Scottish Health Service will be re On the return journey a stop will be ma at Lucca, birthplace of the Guild's patr ess, St. Gemma Galgani. The closing d for applications is February 20.

LOCAL NEWS

Store to Include Pharmacy.—Plans new central premises, which would inclu pharmacy and optical departments, ha been lodged by the Plymouth Co-operat Society with the City Council for approv

Wigan Branch Lecture.—A lecture w given to the Wigan Branch of the Ph maceutical Society by Mr. A. H. Walt (chief bacteriologist, Milton Antisept Ltd.), entitled "Milton in the Combat cross Infection," on January 19. The l ture was illustrated by slides and a film

Sheffield Women Pharmacists. — T following officers have been elected by Sheffield Branch of the National Assoc

WOMEN PHARMACISTS' DINNER AND DANCE.—Cross section of the guests at the dinner and da of the National Association of Women Pharmacists held recently in London.

n of Women Pharmacists: *President,* s. A. Wright; *Vice-president,* Miss M. sover; *Treasurer,* Miss J. Bennett; *Secary,* Miss K. M. Radcliffe, Endcliffe dge, 10 Endcliffe Crescent, Sheffield, 10.

Grimsby Dinner.—Nearly 300 members d friends attended the Grimsby Pharmas' Association's annual dinner and dance January 26. Mr. T. A. Parker, M.P.S. airman, Grimsby Pharmaceutical Comtee), proposed the toast "Grimsby cutive Council" and Mr. O. C. Seaton, P.S., replied to the toast "The Associan."

Dundee Branch Social Evening.—The ual whist drive, dinner and dance of Dundee and East and Central Scottish nch of the Pharmaceutical Society was d on January 25, when over 240 mems and friends were present. The chairn (Mr. G. Mitchell) welcomed the visi and acted as M.C. for the dance. Mrs. chell presented the whist prizes and Mr. conochie acted as card-master.

N.A.W.P. Branch Officers Elected.—At annual meeting of the Merseyside nch of the National Association of men Pharmacists, held on January 8, following officers were elected:—*Prent,* Mrs. E. N. J. Jones; *Vice-president,* s H. G. Irvine; *Treasurer,* Miss M. C. ld; *Registrar,* Mrs. M. R. Townley; *Secretary,* Miss E. F. Llewellin, 4 Dun Grove, Wallasey, Ches.

West Kent Dance.—Over 120 members friends attended a dance organised by West Kent Branch of the Pharmaceu Society on February 2. As a result, Society's Benevolent Fund will benefit about £20. Mr. L. S. Short, M.P.S. e-president of the Association) acted as ter of ceremonies. The next dance will held on March 29. Tickets are avail from Mr. S. J. Hamer, 172 Upper ers End Road, Beckenham.

outh Shields Officers.—At the annual ting recently of the South Shields rmacists' Association the officers were lected, as follows:—*Chairman,* Mr. S. Pearson; *Secretary,* Mr. Turner Bell, Woodbine Street, South Shields; *Trear,* Mr. A. D. Kinghorn; *Committee,* srs. G. I. Coulthard, W. A. Power, L. Willis and R. Darke (replacing Miss ey who has left the town). The chair pointed out that re-election of the e officers was ordinarily not a good g, but was perhaps best on this occasion sidering how young the Association was.

Essex N.H.S. Council Discussion.—The question as to whether certain proprietary articles were drugs or foods (chiefly malt, milk and meat preparations) was discussed by Essex Executive Council on February 9. The local Medical Committee decided to allow six of eight recommendations made by the General Purposes Committee, including charcoal biscuits. The case of a skin cream (often recommended by doctors for preventing chap on hands, and now extensively advertised) was referred back to the Committee.

Protest to Minister.—The Reading Executive Council was informed recently by Mr. W. L. Pullen, M.P.S., that, despite revised methods of pricing adopted in June 1949, payments to chemists were falling further into arrears. The last monthly settlement was made in November 1949 (for prescriptions dispensed in May). The Council decided to draw the attention of the Minister of Health to the position, stating that the withholding of moneys due to chemists had created serious financial hardship and actual loss to many, and to request that immediate steps should be taken to remedy the position.

Closed on Half-day.—The Birmingham Executive Council recently reprimanded a chemist for not participating in the local rota arrangements by opening her shop on the half-day holiday. The chemist told the Pharmaceutical Committee that she had asked for exemption on medical grounds. The Committee decided to recommend the Council to reprimand the chemist for her contravention of the terms of service, and to inform her that, until such time as her application to the appropriate Committee of the Council for partial relief from rota duties was dealt with, she must comply with the rota arrangements in force for the district in which her pharmacy is situated.

Disciplinary Action. — Blackpool Executive Council is to warn two chemists for errors in dispensing. One of them told the committee that the prescription had been misread by an unqualified assistant who had made it up in his absence. He did most of the dispensing himself and normally checked the ingredients when they were made up by his assistant. In the second case an ingredient was left out of the mixture, which was dispensed by a qualified assistant while the contractor was on holiday. In spite of his absence the committee said he must be held responsible.

Aberdeen Brains Trust.—Taking part in a pharmaceutical brains trust in Aberdeen on February 7 were Messrs. E. Fraser, Buckie; E. W. Godding, London; A. A. Meldrum, Aberdeen; and Alderman W. J. Tristram, Liverpool. Mr. W. T. Elder (president of the Association) acted as question-master. Questions were put on varied pharmaceutical problems, including business procedure, National Health Service matters, practical and technical pharmacy, and political points. A part of the procedure was sound-recorded and reproduced at the annual dinner and dance on the following evening.

N.P.U. Cornish Branch.—Members of the Cornish Branch of the National Pharmaceutical Union from all parts of the county, at a meeting in Truro on January 15 presided over by Mr. A. C. Cannon (chairman) heard an address by Mr. J. W. Wright (assistant secretary, N.P.U.) Mr. Wright spoke of the difficulties of pricing prescriptions, of Tariff drug changes, the proposed shilling levy, foods "on the borderline," bulk prescribing, surgical hosiery, and advertising. He pointed out the reasons for some of the vexatious regulations and explained many knotty problems. Questions after the address were many and varied. Mr. Underhill, proposed a vote of thanks to the speaker.

S.E. London Chemists' Dinner.—About 250 guests attended the annual dinner and dance of the South-east London Chemists' Association on January 19. Mr. P. G. Flood (president of the Association), who responded to the toast "The Association," hoped that, at some future date, it would organise "more original" entertainments, such as trips to the Continent. The Association, he said, had probably suffered more than any other during the war but, with the co-operation of its members, had made a "happy resurrection." Among the other speakers were Mr. J. Hearle (chairman, National Pharmaceutical Union), Dr. F. R. Waldron (divisional Medical Officer of Health) who proposed the toast "The Pharmaceutical Society," and Mr. J. F. McNeal (vice-president of the Society) who responded.

Talk on Oxygen Equipment. — Mr. D. W. Hudson (a member of the Pharmaceutical Society's Council) addressed the Leeds Branch recently on the "Comprehensive Pharmacy, with Special Reference to the Oxygen Therapy Equipment Department." Mr. R. C. Duffin presided. Mr. Hudson described the structure, function and administration of a comprehensive pharmaceutical establishment. He dealt specially with the department responsible for oxygen therapy equipment, describing its use and maintenance, giving comparative figures of the efficiency of each type and their merits. Every person responsible for the issue of equipment, he said, should be conversant not only with the physical character and chemistry of medical gases but with the marking of all gases issued in cylinders. Mr. D. Judge proposed and Mr. P. Dobson seconded a vote of thanks.

Bristol Dinner and Dance.—The first dinner and dance organised by the Bristol Branch of the Pharmaceutical Society for many years was held on January 18. The chief toast "The Society" was proposed by Mr. E. L. Hancock (clerk to the Bristol Executive Council), who said that the relationship between pharmacists and himself in an official capacity, had always been most cordial. He was pleased to meet again some of the original contractors under the National Health Insurance scheme, recalling his appointment in 1912. Under the testing scheme, he said, only one sample from sixty tests made locally had been referred back. Mr. A. E. Lemon (Branch chairman) responded. Mr. K. Adams (a past-chairman) thanked the donors of prizes. A conjuring entertainment was provided by Mr. J. F. Bonthron, M.P.S.

Chemists and Wine Licences.—The Leek, Staffs, licensing magistrates were recently asked to consider amending wine licences held by local chemists to enable them to sell Empire wines, including burgundies and sherry. They were stated to have been already selling wines other than medicinal, thus failing to observe conditions of licences granted some years ago. The magistrates took a serious view of those breaches. Nevertheless they renewed the licences and agreed to allow the sale of certain Empire burgundies.—At Ashton-under-Lyne County Brewster Sessions on February 1, Maurice Irving Greene, M.P.S. applied to be released from an undertaking he had previously given to sell only medicated wines. The hearing of the application was adjourned on the ground that the notice given might have been insufficient to allow for objections to be made.—An off-licence for the sale of wines, spirits, sweets and cider has been granted to Mr. Thomas Laidler Wood, M.P.S., 51 Market Place, Pocklington, Yorks.

TOPICAL REFLECTIONS

egistered Addresses and Others

The Council of the Pharmaceutical Soc-ty has been unable to obtain satisfaction its correspondence with the Home Office garding the address of medical practi-oners whose authorisation to prescribe nd use Dangerous Drugs has been with-rawn (p. 186). There was a time when it as possible to approach the Home Office such cases with a hope of success. pparently there has since been a change climate in Whitehall. The difficulty pharmacists in retail business when any edical man's authorisation is withdrawn a serious one. How are they to decide, cept by a telephone inquiry, whether a ranger signing a prescription presented r dispensing is an authorised person or t? Telephone inquiries can take up a od deal of time and can be costly. Again, a register approximately twice the size the Register of Chemists and Druggists ere must be several instances of practi-oners who have identical names: the entification of an unauthorised person in ch circumstances would be rendered uch easier if the last-known address of at person could be obtained by the dis-nsing pharmacist. Your model scheme r notification (p. 181) would meet this ed.

nd of a Competition

There will be widespread regret on read-g the announcement that the herbarium mpetition of the Pharmaceutical Society to be discontinued (p. 186). Several ticles have been written, in THE CHEMIST D DRUGGIST and elsewhere, on methods preparing botanical specimens for pre-rvation; and everyone who has had occas-n to consult an important herbarium will ree that its value is unquestionable. The easure derived from collecting an herb-ium is twofold. First there is the entification of specimens—including, with od fortune, some rarities. Secondly there the technique, exercised with increasing rtainty, for preparing and mounting what s been collected. The selection of mat-als; the best methods of drying; the oice of a preservative when one is needed these and other points afford scope for uch ingenuity. It has often been re-arked that adolescents of the present day e for the most part interested in mechani-l processes: that fact may explain some extent a slackening of interest in tany. As the Calendar of the Pharmaceutical Society shows, the first awards for herbaria collected by its students were made in 1857. The list of prize-winners includes several distinguished names. From it I select those of E. M. Holmes (1863), E. Alfred Webb (1870), F. J. Hanbury (1872), David Hooper (1878), E. Saville Peck (1884), R. R. Bennett (1899), and C. E. Corfield (1911). We may derive a modicum of consolation from the remark of the chairman of the Education Committee that the discontinuance of the competition does not rule out a competition on somewhat similar lines. Those most interested may be able to press the matter to a successful issue.

Glasgow Pharmacists' Associations

The announcement that the recently formed Glasgow Pharmacists' Association has decided to offer membership to all pharmacists in Glasgow (p. 175) is of general interest. No comparable body has, I suppose, shown keener appreciation of things that matter in pharmacy than successive associations of pharmacists in Glasgow have shown during the past hundred years or so; possibly none has revised its name more frequently. The history of these associations from 1854 to 1925 was set forth in an attractive article in your issue of July 11, 1925: the following brief outline is taken from it. The Glasgow Druggists' Early Closing Association, founded in 1854, differed from most of the similar bodies then in existence by having shorter working days as its main objective. Scientific and convivial gatherings were, however, not excluded from the programme: at one of the latter the attendance was about 300, and "the countenance and support" received from medical men was "very encouraging." During the 'sixties the title was changed to "The Glasgow Chemists' and Druggists' Association." At the annual meeting in 1871 the secretary reported that a price list had been compiled, and that for purposes of protection the West of Scotland Chemists' Defence Association had been formed. In 1886 a new start was made, the previous association having lapsed. More than one change of title took place between then and the Conference year of 1925. One cannot blame the Association for making these changes; slight as they were, they remain on record as evidence of efforts to increase to an even higher total an already large membership.

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NEW COMPANIES

McElhinney's Medical Hall, Ltd. (P.C.).—Registered in Dublin. Capital £100. Hugh McElhinney, M.P.S.I., and Aileen McElhinney, directors, both of Rath House, Rathangan, Kildare.

Blades Chemists, Ltd. (P.C.).—Capital £17,000. To carry on the business of wholesale or retail chemists, etc. Theodore H. Leyland, M.P.S., and Eric Fearnhead, directors. R.O.: Midland Bank Chambers, Llandudno.

C. J. Reid (Eton), Ltd. (P.C.).—Capital £10,000. To carry on the business of chemists, druggists, etc. John S. Payne, Geoffrey C. Osborn, M.P.S., and Percy O. Davis, directors. R.O.: 30 High Street, Eton, Windsor, Berks.

P. C. Products (Overseas), Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of chemicals and chemical products, etc. Joseph Benjamin and Maurice E. Stiller, directors. R.O.: 110 Stainbeck Lane, Leeds, 7.

Photo-Chemical Co., Ltd. (P.C.).—Capital £100. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Kurt Jacobson and Gerald N. White, directors R.O.: 12 Henrietta Street, London, W.C.2.

Ida Kay, Ltd. (P.C.).—Capital £500. To carry on the business of manufacturers and importers of beauty preparations, etc. Ida K. Harvey, Ada H. M. Paine and Beatrice Heyes, directors. R.O.: 50 Cannon Street, London, E.C.4.

M. Fulder & Co., Ltd. (P.C.).—Capital £10,000. To carry on the business of dealers in and importers and exporters of chemicals, pharmaceuticals, etc. Max Fulder and Aubrey L. Sackin, directors. R.O.: 112 Fenchurch Street, London, E.C.3.

G. W. Hope & Co., Ltd. (P.C.).—Registered in Edinburgh. Capital £20,000. To carry on the business of analytical and consulting chemists and druggists, etc. James Low, 308 Croftpark Avenue, Glasgow, subscriber. First directors are to be appointed.

R. W. Dunn (Chester), Ltd. (P.C.).—Capital £4,000. To acquire the business of a pharmaceutical chemist and druggist now carried on at 59 Bridge Street, Chester as "R. W. Dunn." Robert W. Dunn, M.P.S., and William R. Dickinson, M.P.S., directors.

Parsons & Row, Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturing wholesale and retail chemists and druggists, etc. Mrs. Mabel N. Parsons, Edna M. Row, and Henry S. Hardwick, directors. R.O.: 7 Brockley Rise London, S.E.23.

Isotope Developments, Ltd. (P.C.).—Capital £25,000. To develop and turn to account the use of radioactivity and the use of radioactive and stable isotopes, and radiations. First directors are to be appointed. Solicitors: Slaughter & May, 18 Austin Fraiars, London, E.C.2.

Lord & Dendy, Ltd. (P.C.).—Capital £1,000. To acquire the business of chemists now carried on by T. C. Mansell, Ltd. at 177 The Broadway, and 12 Cricklewood Lane, London, N.W.2. Frank Lord, M.P.S., Michael R. Dendy, Hilda Lord and Audrey M. Dendy, M.P.S., directors. R.O.: 8 Ship Street, Brighton.

Reducine Co., Ltd. (P.C.).—Registered in Dublin. Capital £600. To carry on the business of manufacturers of veterinary preparations of all kinds. William Lambert, Mount Anthony, Ardee Road, Rathmines, Dublin; Lionel Hastings, Noel Lambert, Septimus D. Lambert, Nora D. Anderson, and Eileen H. Hastings, directors.

Taylor Lloyd (Aberystwyth), Ltd. (P.C.).—Capital £7,500. To acquire the business of chemists and druggists, opticians and photographic suppliers carried on at 20 Great Darkgate Street, Aberystwyth. Bertie T. Lloyd, M.P.S., Annie T. Lloyd and Gwyn Martin, directors. R.O.: 20 Great Darkgate Street, Aberystwyth.

Company News

James Woolley Sons & Co., Ltd.—Mr. Arthur Maude, M.P.S., has relinquished his position as general manager and secretary of the company, and has resigned from the board. Mr. Maude has also resigned his directorship in J. C. Arnfield & Sons, Ltd.

Southern Manufacturing Co., Ltd.—Messrs. John McGovern, M.P., George Wallace and C. McGovern have resigned from the board of the company and from that of its subsidiary, Pharmaceutical Distributors (Glasgow), Ltd., 214 West Regent Street, Glasgow. They have disposed of their holdings to Mr. John Dyer, a director of both companies.

SULPHATHIAZOLE PATENT APPEAL DISMISSED

'HE House of Lords, by a 3—2 majority, ismissed on February 9 an appeal by Iay & Baker, Ltd., and Ciba, Ltd. (forerly the Society of Chemical Industry in asle) against an order of the Court of ppeal affirming a judgment of Mr. Justice Jenkins in the Chancery Division (see *. & D.*, 1948.II.791). Mr. Justice Jenkins ad pronounced for the revocation of letters atent relating to the manufacture of sulhonamide compounds having a thiazole ompound linked with the sulphanilamide olecule. On account of opposition by oots Pure Drug Co., Ltd., the judge had efused a motion by Messrs May & Baker nd Messrs. Ciba for leave to amend the ecification by limiting it to sulphathiazole nd sulphamethylthiazole.

In the House of Lords appeal the majory decision was given by Lords Simonds, ormand and MacDermott. Lords Morn and Reid dissented.

Lord Simonds said the only issue before e House was the question of amendment. y a proviso to section 22 of the Patents nd Designs Act, an amendment was probited if it would make the invention substantially different" from the invenon as it had been claimed in the unmended specification.

Sulphanilamide was substantially the st of the sulphonamide drugs of which e therapeutic value had been discovered. fforts were made to render it more deadly bacteria and less toxic to human beings. he discovery of sulphathiazole and sulamethylthiazole had been a valuable ntribution to the therapeutic art, but the neral character of the methods employed their production was known before 1938 nd the production of sulphathiazole would t in itself involve invention. Only by a nsideration of the unamended specificaon as a whole could one decide what was e invention claimed. "Having done so," said, "I can give no other meaning the document than to say that the intor claims that the whole range of nzene-sulphonamido derivatives which ll within the consistory clause is his intion, not indeed in the sense that he scovered that they could be made, or w to make them, but in the sense that discovered that, one and all, they had erapeutic value."

The unamended specification claimed in e invention the whole range of benzenelphonamido derivatives, in the sense that had therapeutic value. There was no t that the two drugs now mentioned were essentially distinguishable from other members of the vast group, and no separate claim was made for the manufacture of those two drugs. It was plain common sense, he thought, that the two inventions —on the one hand, a vast range of possible compounds, and on the other, two specific drugs — were "substantially different." The sameness or difference of the two inventions could not be determined by the fact that the patentee elected to give one as an example of the other.

Lord Morton, dissenting, took the view that, since the proposed amendment was an amendment by way of disclaimer, it did not fall under the proviso to section 22. There was no doubt that the discovery of the two drugs was an important invention for the benefit of mankind, and in his view the two compounds were to be regarded as the preferred embodiment of the invention described in the specification. The fact that the invention claimed by the amended specification was substantially smaller than the original did not of itself render the two inventions "substantially different"; and he could see no other ground on which they could be so held.

"It seems to me," he said, "that the appellants are not claiming a different invention but something which is a part of the wide invention originally claimed. Not only is it part of that wide invention (two substances out of millions), but it is the pith and centre of that wide invention."

Lord Reid said he would not necessarily allow the appeal, and agreed that the proposed amendment was drastic. Merely putting forward in a separate claim something already clearly indicated in the body of the specification could not, however, make the invention "substantially different" from that claimed if there were no separate claim. He thought the proposed amendment was competent.

The appeal was dismissed.

To Return to Ireland.—At the resumed hearing on February 8 of charges connected with his pose as a doctor (see *C. & D.*, February 4, p. 135), Jeremy Patrick Burke was discharged conditionally for twelve months on payment of £12 12s. costs and on his undertaking to make restitution to those who had suffered loss. It was a condition that he should return to Ireland and stay there for at least two years. The magistrate warned him that if he came back he would be brought to court and sent to prison.

BIRTHS

GRAHAM.—At Homeland Nursing Home, Lenzie, Glasgow, on February 4, Jay, the wife of John Shearer Fletcher Graham, M.P.S., Remuera, Lenzie, of a son.

MCLAREN.—At Charleton Maternity Home, Montrose, Angus, on January 23, Margaret (née Cemery), wife of James Miller McLaren, M.P.S., 121 Wards Road, Brechin, of a daughter.

MARRIAGE

LESTER—DEACON. — At St. Mary's Church, Banbury, recently, John A. Lester, Banbury, to Margaret Jean, youngest daughter of Mr. John A. Deacon, M.P.S., 23 Parsons Street, Banbury.

DEATHS

ALLAN. — On February 3, Mr. David Souter Allan, M.P.S., 35 Holburn Street, Aberdeen. Mr. Allan qualified in 1902.

BORTHWICK.—On February 1, Mr. William Borthwick, M.P.S., 5 Market Square, Keswick, Cumberland. Mr. Borthwick qualified in 1929.

HILL.—On February 2, Mr. Fred Hill, M.P.S., 23 St. Johns, Worcester. Mr. Hill qualified in 1909.

HOUSEMAN.—On January 26, Mr. Alfred Howard Houseman, M.P.S., 50 Laleham Road, Cliftonville, Margate, Kent, Mr. Houseman passed the Qualifying examination in 1901.

HUSH.—On January 30, Mr. Charles Kerse Hush, M.P.S., 125A Queens Road, Peckham, London, S.E.15. Mr. Hush qualified in 1930.

JONES.—On February 2, Mr. Evan Herbert Jones, M.P.S., 1 Manor Road, Wallasey, Ches. Mr. Jones qualified in 1909.

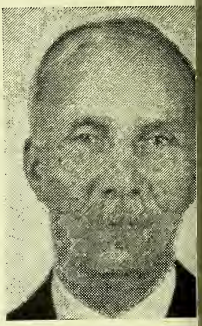
LONG.—On October 20, 1949, Mr. Edward Frank Long, M.P.S., 5 Bedford Park Corner, Bedford Park, London, W.4. Mr. Long qualified in 1899.

LOWE.—On January 31, Mr. Christopher Harry Eaton Lowe, M.P.S., 5 Shrubbery Walk, Weston-super-Mare, Somerset, aged seventy-eight. Mr. Lowe was for over thirty years in business at 42 Redcliffe Hill, Bristol.

WILDE. — On October 22, 1949, Mr. Francis Hartley Kenyon Wilde, M.P.S., c/o Beetham & Son, Imperial Lane, Cheltenham, Glos. Mr. Wilde qualified in 1923.

PERSONALITIES

MR. E. F. J. ARNOLD has retired aft over forty-seven years' continuous servi with R. W. Greeff & Co., Ltd. Entering the business as office boy in 1902 Mr. Arnold progressed steadily to secretary and director. He was manager of the fine chemical and pharmaceutical department and, at the time of his retirement, a director of Greeff - Chemicals Holdings, Ltd.—a directorship he has resigned. At his retirement Mr. Arno was entertained at a complimentary lu cheon by the board of Greeff-Chemica Holdings, Ltd., at which expression w given to the esteem in which he is he in the industry. At the luncheon M Arnold was presented with a silver salv as a personal tribute from his associates.



MR. E. A. BROCKLEHURST, M.P.S., t newly-elected president of the Chemis Federation (see p. 218), and its vice-president in the year just terminated, has been a member of the council of the Federation for seven years, representing the retailers. He owns three pharmacies in Hull, and is a director of F. J. H. Wrothwell, Ltd., Kirby Moorside, Yorks (of which his wife, Mrs. H. S. Brocklehurst, M.P.S., is supe intendent). A past-chairman (1946) of t National Pharmaceutical Union, he co tinues to serve the organisation as a me ber of Executive. He is also a member the Pharmaceutical Society's Council. Du ing early negotiations connected with t formation of the National Health Servi he was a member of the Joint Committ on a National Pharmaceutical Service ar of the liaison committee with the Briti Medical Association. He is a past-preside of the Hull Rotary Club.

C. & D. RETAIL & DISPENSING PRICE LIST

he following price changes, which occurred ring January, should be noted. The drug dex figure for the month was 181·6.

Cost d. per	Item	Selling price 4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
8 oz.	Acid. gallicum ..	—	2 8	0 5
6 lb.	Aether. solvens 3/3 lb.	1 0	0 3½	—
9 oz.	Benzocaina P.I.(8)	—	—	1 8
o lb.	Camphora ..	4 3	1 2	0 2
8 lb.	Chloroformum P.I.(8)	2 7	0 9	0 1½
1 dr.	Cocaina D.D.	per	grain	0 7
o dr.	Cocainæ hydrochlor.D.D.	per	grain	0 6
9 oz.	Collod. vesicans, B.P.C.	—	4 8	0 8
o lb.	Conf. piperis, B.P.C.	4 3	1 2	0 2
1 lb.	Conf. sulphuris ..	2 10	0 10	0 2
3 oz.	Ext. ipecac. liq. ..	—	10 7	1 9
9 lb.	Lin. camph. am. (meth.) P.11(9)	1 3	0 4	—
5 lb.	Liq. cresol. sapon. P.11(9 or 12) 1/10 lb.	0 8	0 3½	—
o oz.	Methylsulphonal ℞ only	—	—	2 10
4 lb.	Myristica, 64's ..	3 0	0 10	0 2
o lb.	Myristicæ pulv. ..	2 2	0 7	0 1
6 oz.	Oleoresin. capsici, B.P.C.	—	—	2 3
7 oz.	Ol. anisi	—	2 6	0 4½
o oz.	Ol. menth. pip. ..	—	—	1 11
4 oz.	Pancreatinum ..	—	3 6	0 6
2 oz.	Pasta bismuth. et iodoform.,B.P.C.	—	4 8	0 8
8 oz.	Podophylli resin. (peltatum) ..	—	—	2 6
2 lb.	Pulv. cretæ aromat. c. opio S.1.(5)	3 8	1 0	0 2
o oz.	Pulv. ipecac. et opii S.1.(5)	—	4 5	0 8
o lb.	Pulv. rhei co. ..	3 3	0 11	0 2
8 lb.	Sapo mollis 3/6 lb.	1 0	0 3½	—
6 lb.	Succus glycyrrhizæ (sticks) ..	3 5	0 11	0 2
9 lb.	Tinct. cardamom. aromat. ..	4 10	1 4	0 3
8 lb.	Zinci sulphas ..	0 9	0 3	—
1 lb.	Zingib. Afric. ..	2 10	0 10	0 1½
o lb.	Zingib. Afric. pv.	3 3	0 11	0 2
4 lb.	Zingib. Jam. .. No. 1	3 0	0 10	0 1½
3 lb.	Zingib. Jam. pulv.	3 3	0 11	0 2

TABLETS

Cost d. per	Item	Selling Price 25 s. d.	100 s. d.
2001000	Aneurin. hydrochlor. 1 mgm.	1 3	4 0
3121000	Aneurin. hydrochlor. 3 mgm.	2 0	6 0
308 500	Ethinyl œstradiol 0·01 mgm.	2 6	8 9
480 500	Ethinyl œstradiol 0·05 mgm.	3 9	13 3
4801000	Riboflavin 1 mgm.	2 6	7 0
721000	Stilbœstrol 0·5 mgm.	1 0	—
901000	Stilbœstrol 1 mgm.	1 3	—
2281000	Stilbœstrol 5 mgm.	1 6	—

INJECTIONS

Item	Cost ½ doz. d.	Selling ½ doz. s. d.	Cost doz. d.	Selling doz. s. d.
Acetylcholine 0·05 gm.	40	5 0	—	—
Acetylcholine 0·10 gm.	48	6 0	—	—
Pituit. poster., B.P. ½ mil. P.I.(13)	24	3 0	44	5 6
Pituit. post., B.P. 1 mil. P.I.(13)	36	4 6	68	8 6
Vitamin B12 ..	72	9 0	for 3	—

BIOLOGICALS

Item	Strength mgm.	Cost d.	per	Selling s. d.
Aureomycin.hydrochlor. (oral)..	250	1040	16 caps	130 0
Aureomycin hydrochlor. (ophthalmic) ..	25	212	each	26 6
Streptomycin ($CaCl_2$ complex)	mega 1	480	10	60 0
Streptomycin ($CaCl_2$ complex)	5	216	each	27 0
Di-hydrostreptomycin sulphas ..	1	480	10	60 0

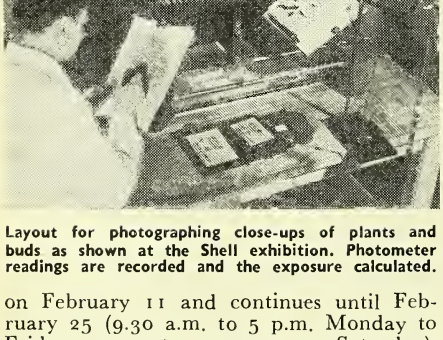
TRADE NOTES

Advertisement Mirror. — A "visiting-card" mirror carrying a design or message is one of the advertisement novelties offered by Novolor, Ltd., 6 Charterhouse Square, London, E.C.1.

Now in Free Supply.—British Chemicals & Biologicals, Ltd., Loughborough, Leics, announce that Genaformint tablets ("the original Formamint tablets") are now in free supply. Prices are given on another page.

Penicillin With Vasoconstrictor. — Menley & James Ltd., 123 Coldharbour Lane, London, S.E.5, announce the introduction of Pendex (penicillin-Paredrinex), an aqueous penicillin-vasoconstrictor for use in sinusitis, rhinitis, and nasopharyngitis. A descriptive pamphlet is available to pharmacists on request. Pendex is available in 15-cc. bottles, with dropper.

Horticultural Pest Photographs.—An exhibition of photographs of horticultural pests and diseases, organised by Shell Chemicals, Ltd., 112 Strand, London, W.C.2, is being held in the Kodak Gallery, 184 Regent Street, London, W.1; it opened



Layout for photographing close-ups of plants and buds as shown at the Shell exhibition. Photometer readings are recorded and the exposure calculated.

on February 11 and continues until February 25 (9.30 a.m. to 5 p.m. Monday to Friday; 9.30 to 11.30 a.m. Saturday). The photographs exhibited, some of which are in colour, have been selected from over 15,000 negatives taken by the Shell Photographic Unit and are of the commoner pests and diseases affecting fruit trees in temperate areas of the world. They show the various pests at a magnificatio of about 1 in 150, and are the result o two years of experiment by the Unit i photomicrography and photomacrograph Copies of the photographs are available t research workers, education authorities an horticultural associations.

Bonus Offers. — Coates & Cooper Ltd., Pyramid Works, West Drayton Middlesex, announce on another page special introductory offer of fourteen t the doz. new handy-size pack of Rhyso-va valerian dragees in return for counter dis play.—Dae Health Laboratories, Ltd 17 Berners Street, London, W.1, are offer ing, as a special introductory offer, a 1 per cent. discount on all orders for thre doz. Valderma antiseptic balm.—A bonu offer on Halex combs by the manufacturers Halex, Ltd., Hale End London, E.4 closes on March 31.

Twofold Distribution. — Paramisa brand *p*-aminosalicylic acid, which is no manufactured by Therapas, Ltd. [a com pany formed to adopt agreements betwee British Chemicals & Biologicals, Ltd., an Herts Pharmaceuticals, Ltd., for the manu facture of *p*-aminosalicylic acid and al other kinds of antitubercular preparations and having its registered office at Lough borough], is henceforth to be distribute by both Herts Pharmaceuticals, Ltd., Wel wyn Garden City, and British Chemical & Biologicals, Ltd., 42 Regent Street Loughborough. For the convenience o customers in Scotland and Northern Ire land, stocks will be maintained at the Glas gow and Coleraine depôts of B.C.B., Ltd In Scotland it may also be obtained fron the Glasgow office of Herts Pharmaceuti cals, Ltd. Chemists are reminded tha Paramisan is available as powder, tablets granules, ampoules, cream and jelly, an will shortly be available in the form o cashets containing 1.5 gm. Literature wil be supplied on request.

Price Changes.—Chesebrough Manufacturing Co., Ltd., Victoria Road Willesden, London, N.W.10, announce tha increased prices for Vaseline brand petroleum jelly take effect on March 1. On the same date the prices of Vaseline hair tonic are being reduced (details, p. 222).—The Crookes Laboratories, Ltd., Park Royal London N.W.10, have reduced the retai prices of Crookes vitamin-K analogue (acetomenaphthone 10 mgm.) tablets; the product is exempt from purchase tax.—

'ANDA ROLL FILM CO., LTD., 12 Laings Corner Mitcham, Surrey, state that the rice of Panda roll film is being increased n March 11. Full details will be given in n announcement in a forthcoming issue of he *C. & D.*, but it is understood that he terms advertised during 1949 will pply to all orders received and delivered efore March 11.—The SURGICAL DRESSNGS MANUFACTURERS' ASSOCIATION state hat, owing to further increases in the prices of raw materials, they have been compelled to advance prices as follows (price er doz. in parentheses):—

ABSORBENT COTTON WOOL, HOSPITAL QUALITY, ot interleaved. 16-oz., 3s. 2¼d. (38s. 3d.); 8-oz., s. 4d. (20s.); 6-oz., 3s. 5¼d. (15s. 6d.); 4-oz., s. 6½d. (10s. 8d.); 3-oz., 3s. 8½d. (8s. 4d.); 2-oz., s. 10¾d. (5s. 10d.); 1-oz., 4s. 6¼d. (3s. 5d.); -oz., 5s. 2¾d. (2s.).

GREY (UNBLEACHED) WOOL, 16-oz. packet (not nterleaved), 2s. 5½d. per lb.

GAUZE TISSUE. HOSPITAL QUALITY, 16-oz. acket, 4s. 1½d. per lb.

Display Outer Container. — Charmony oapless shampoos, Rosemary and Golden Glow, are now being sent out by the nanufacturers, Munro Vitarex, Ltd., 6 St.

aith's Road, London, S.E.21, in cartons hat open out into an ingenious display and, as illustrated, which may be quickly olded up to keep the envelopes free of ust when the shop is closed. The outer olds one dozen shampoos of each kind. It was designed and printed by William Sessions Ltd., The Ebor Press, York.

New Products and Packs.—Introducing Pyorex Bailly—a new medicated dentifrice —the manufacturers, BAILLY, LTD., are offering, through their sole concessionaires, Bengué & Co., Ltd., Mount Pleasant, Alperton, Wembley, Middlesex, a free sales tube on request from chemists. —In order to facilitate the dispensing of cream of penicillin, B.P., a new strength of penicillin solution-tablets (15,000 i.u. penicillin calcium salt), B.D.H., has been made available by THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1. The tablets are presented in boxes of one tube of ten, six tubes of ten, and bottles of 100. — EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19, announce the issue in cartons of twenty-four and 100 tablets of Collumina compound tablets, containing aluminium hydroxide, phenobarbitone and atropine sulphate; each tablet is sealed in foil. Bulk containers of 500 tablets are also available. All are dispensing packs.—D. & W. GIBBS, LTD., Kingscote House, 1 Watergate, London, E.C.4, announce the introduction of Astral cream, which is described as "an entirely new type of skin cream" and equally effective as a vanishing, cleansing, protective or "skin-nursing" cream. The cream is available in cartoned tins in red and white. — HOWARDS & SONS, LTD., Ilford, nr. London, have redesigned the containers of a number of their B.P. quality chemicals. An illustration of the new pack, which is being dispatched to wholesalers from March 1, is given on another page.—In order to cater for women with olive complexions, RICHARD HUDNUT, LTD., Power Road, London, W.4, have introduced in their Three Flowers face-powder range a new shade, Brunette. Samples of the new shade are shortly being offered to the public in the company's advertisements.

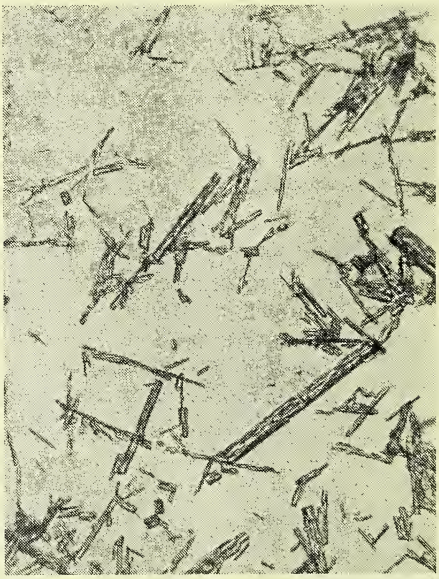
Proprietary Articles Trade Association

Alterations to Protected List (Part 1). —*Evans Medical Supplies, Ltd.*, Cascaromat, 2-oz., 30s. doz., tax 33⅓ per cent., inclusive retail price 4s. 2d.; 8-oz., 93s. doz., tax 33⅓ per cent., i.r.p. 12s. 9d.; 40-oz., 36s. each, tax 33⅓ per cent., i.r.p. 57s. 6d.

Glaxo Laboratories, Ltd., High-potency Ostelin tablets, 25's, 27s. doz., 3s.; 100's, 81s. doz., 9s.; 1,000's, 54s. each, 72s. (all exempt). Kapilon tablets, 25's, 22s. 6d. doz., 2s. 6d.; 100's, 67s. 6d. doz., 7s. 6d.; 1,000's, 45s. each, 60s. (all exempt).

BRITISH STREPTOMYCIN FOR EXPORT

STREPTOMYCIN is today being dispatched in gradually increasing quantities to hospitals and doctors overseas. The position has thus changed dramatically since those still recent days when the acute shortage of the drug necessitated B.B.C. appeals for imported supplies. The changed outlook is principally due to the efforts of the largest manufacturers of streptomycin in this country: Glaxo Laboratories, Ltd. Messrs. Glaxo became interested in streptomycin shortly after its discovery by Waksman in 1944. By the end of 1946 preliminary laboratory work was well forward at the company's antibiotics plant at Barnard Castle, co. Durham, and in the following year pilot plant production began. By the early part of 1948 the results from the pilot plant were so encouraging that several 5,000 gallon fermenters, previously used for penicillin fermentation, were converted for streptomycin manufacture.



Photomicrograph of streptomycin crystals

In the initial stages the research team worked alongside the production staffs, and that close scientific watch on events led to several important modifications being incorporated in the extraction process. Breakdowns were not infrequent in the early experimental days, and in order to reduce engineering delays to the minimum a team of engineers was on night and day standby so that defects could be rectified as they occurred. Recognition of that effort came in the King's Birthday Honours list, 1949, when the British Empire Medal was awarded to Mr. Harold Barron, a senior charge-hand in control of the streptomycin engineering force at Barnard Castle.

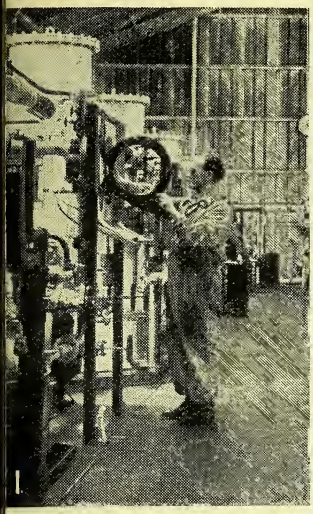
Up to and including fermentation the processes in streptomycin and in penicillin production are identical, and part of the penicillin equipment at both Barnard Cas and at the company's plant at Ulversto Lancs, is utilised in the preparation streptomycin. Production begins in t "spore farm." The inoculum, grown in one-litre shake flask, passes through tan of gradually increasing size (initially 5 and 500-gall. units and finally 5,000-ga fermenters). *Streptomyces griseus*, the pr ducing micro-organism, grows best on rich protein di (e.g., meat extra rather than on t relatively inexpe sive corn ste liquors used penicillin produ tion, and the pr vision of a mo economical an more nutritive m dium has been o of the productio problems.

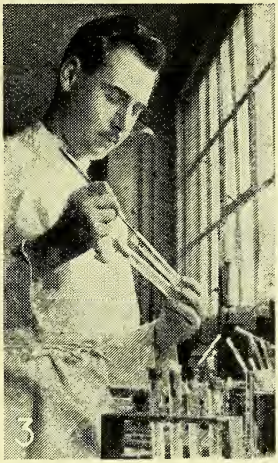
When the fe mentation stag are complete, t broth is filtered t remove the mycel um and unwante solids. The mycel um, in contrast t that from penici lin, is like thin ti sue paper. Strept mycin is extracte by an adsorptio process, converte to crude hydr chloride, then co verted by a crystallisation process to i calcium chloride salt. The salt is decolo ised, Seitz-filtered, and freeze-dried. Sam ples are tested biologically, chemically an pharmacologically for potency and sterilit and when the analyses are complete th drug is ready for transfer in bulk to Gree ford, where all filling and packing opera tions take place.

Since June 23, 1948, when the first via of Glaxo streptomycin to the order of th Ministry of Health was filled and packed well over half a million vials have bee dispatched from the Greenford labora tories.

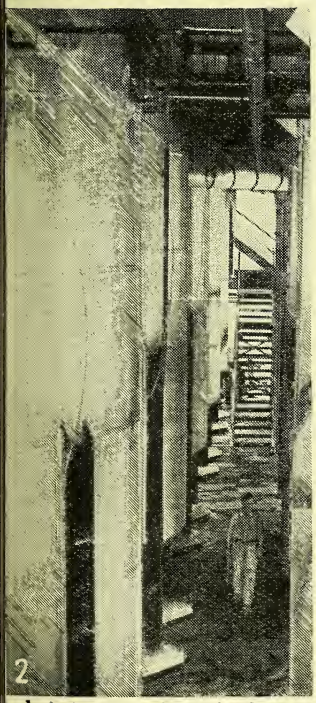
United States Uranium Deposit.—A larg deposit of uranium-bearing ore has bee found in the Rocky Mountains in Utah.

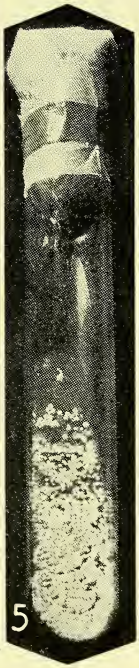
ASPECTS OF STREPTOMYCIN PRODUCTION

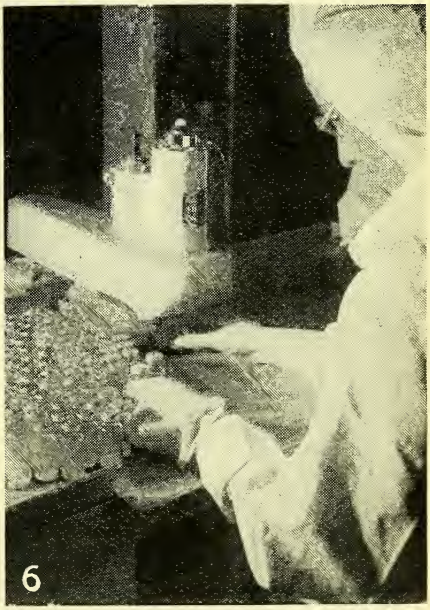




3. Preparation of a primary culture of streptomycin. 4. Spray-inoculating a production batch.







1. Instruments above the fermenter heads enable performance to be regulated and logged.

2. What a fermentation hall looks like from operating-floor level.

5. Sub-master culture of *Streptomyces griseus*.

6. The finishing touches to vials of streptomycin are given at Greenford—to which the material is taken in bulk—by sterile-gowned operatives.

SUPPLIES IN HOSPITALS

FOLLOWING representations to the Minister of Health by the Guild of Public Pharmacists and Pharmaceutical Society of Great Britain as to the proper division of responsibility between hospital pharmacist and supplies officer, the Standing Pharmaceutical Advisory Committee has advised the Minister to define more clearly the considerations to be taken into account in the provision of pharmaceutical supplies The Ministry has circulated the following notes for the guidance of Hospital Management Committees and Boards of Governors in place of memorandum H.M.C.(48)2a :—

The professional responsibility of the pharmacist to his management committee or board of governors for the conduct of his department includes the need to ensure that pharmaceutical supplies are correct and of satisfactory quality. Centralised supply arrangements must not prevent the discharge of this responsibility, and in obtaining such supplies the committee or board should be guided by pharmaceutical advice.

Where the board or committee manages a group of units the requirements of the individual units should be co-ordinated at the group level. This may be effected by consultation between a pharmacist of the group and the supplies officer, or through a small pharmaceutical committee representing the pharmacists of the group acting in association with the supplies officer. The machinery should be the best for the particular circumstances and should embody the principle of joint action. The procedure in obtaining pharmaceutical supplies should therefore be on the lines that the pharmacist of each unit with a pharmaceutical department prepares an estimate of needs for the year, or other suitable period. The estimates should then be scrutinised by a pharmacist or other pharmaceutical advisory machinery, passed on to the supplies department, and collated. Pharmaceutical advice should be taken by the supplies department on specification, preparation of tender schedules, special conditions of contract, etc. After tenders are received, pharmaceutical advice should be taken on the proposals for the award of contract before recommendations are made to the management committee or board of governors. Individual orders should be placed by the pharmacist of the unit with one of the selected contractors, or, for items for which no contract has been made, with a firm which he has selected. Orders need not be countersigned by any other offic Drugs and galenicals, and chemicals a pharmaceutical specialities and druggi sundries, should normally be purchased this way, except where central contra are placed by the Department [see R.H (49)89/H.M.C. (49)72/B.G. (49)74]. Ph maceutical advice should be taken on t quality of surgical dressings, and in so groups of hospitals it may be found c venient to deal with their supply also in t manner suggested.

RADIUM FOR HOSPITALS

RADIUM supplied to hospitals is being p vided in future by the Radio-chemi Centre, Amersham, on hire to the boa of governors or hospital management co mittees. Boards of governors requiri radium should send their applications the Ministry of Health, not to the Cent Hospital management committees shou send their applications to the Region Board, who will forward them to t Ministry with a recommendation either support of or against the proposals. Aft examination of the orders the Ministry w ask the Centre to deliver the container (appliance) and the Centre will send to t board or committee for completion a for of agreement. Hire charges for containe or appliances are to be based on t radium content at the rate of £225 p gm. per annum and paid for by the boa or committee concerned. An estimate radium requirements for the next financi year should be submitted by each boa to the Ministry not later than February 2

The arrangements under which hospita on the list prepared by the Radium Co mission may receive radon from the Radi chemical Centre are being continued heretofore, and the radon is being pa for by the board or committee. The Mi ister is prepared to consider applicatio for additions to the list. It is not pr posed to alter the present arrangeme whereby radioactive isotopes required f research may be obtained on applicatio to the Medical Research Council.

U.S. Navy to Investigate Cold "Cures. —The effectiveness of antihistamines i the prevention and treatment of commo colds is to be the subject of a five-mont investigation by the U.S. Navy. Th Navy's medical research department wi use in the tests two 500-man groups c Navy enlisted personnel.

AT THE HUSTINGS

What the Political Parties propose for Health and Industry

/ITH so large an area of common ground nong all political parties on the principles the National Health Service, it was to e expected that health would not be rominent in their election programmes. n the Liberal manifesto "No Easy Road" ealth is hardly mentioned. A paragraph eaded "Our Policy for Women" claims at "More could be done for patients and urses alike by increased recruitment of reign domestic labour," and under Security of the Individual" a concerted fort is promised to improve the adminisation of the National Health Service.

Labour promises "to go forward on the re foundations already laid."

The Conservative Party's manifesto, This is the Road," in a paragraph headed The Health Service," states "We pledge urselves to maintain and improve the ealth Service. Every year the estimates id before Parliament have been greatly kceeded. Administrative efficiency and onomy and correct priorities throughout e whole service must be assured, so that proper balance is maintained and the ardest needs are met first . . . We intend to rengthen the position of the family docr by restoring his freedom to practice ywhere and by offering a weighted capition fee to doctors with small lists, especily in rural areas. Appeals against disissal should be allowed to go to the ourts instead of to the Minister. The nctions and methods of appointment of oards of management and area hospital oards require a more satisfactory basis. ll hospitals within the health scheme ould by statute admit the acutely sick, bject to proper safeguards."

Only the Communist Party's "Socialist oad for Britain" is strongly critical of e whole machinery of the Service, ough its criticism is rather weakened by belief, apparently, that the shilling levy n prescriptions has already been applied. states:—"The promised health centres, inics and new hospitals have not been rovided. . . . The shilling charge for presiptions has destroyed the principle of a ee service."

A "general election manifesto" issued y the Socialist Medical Association, states at the Association fights for the retenon of the whole of the present National ealth Service Act and its further developent, against any further whittling down compromise or political expediency of any provisions of the Act, for the provision of health centres, etc.

Industry and Trade

The Labour Party manifesto "Let Us Win Through Together," in a paragraph "Encouragement for Enterprise" states: "Where private enterprise fails to meet the public interest, the Government will be empowered to start new competitive public enterprises in appropriate circumstances. For private and public enterprise to compete fairly and squarely in the public interest will be good for both." One industry that will be "carefully examined" is the chemical industry, "any appropriate sections" of which will be transferred to public ownership "if necessary to assure vital national interests."

On distribution, Labour promises that competition among private retailers will be encouraged. "Subject only to the needs of town planning, any citizen should be able to open a shop. Anti-social private agreements to keep prices too high will be dealt with."

The Liberal Party would introduce copartnership and profit-sharing into major units of industry, and remove the profits tax on undistributed profits used to replace capital equipment. Monopoly, "where it is not inevitable," would be broken up. If it could not be broken up it should, if possible, be controlled in the public interest. Only when it was not possible to restore competition or control would nationalisation be considered. Liberals would allow no minimum price-fixing unless permitted by the Board of Trade, and would reform "those sections of the patent law which prevent useful ideas benefiting the public."

The Conservative Party pledges itself to encourage in industry the highest level of efficient production and the most effective partnership between owners, executives and operatives. "Monopoly and bureaucracy should give place to competition and enterprise." Nationalisation will be brought to a full stop. "Thereby we shall save all those industries, such as . . . chemicals . . . which are now under threat by the Socialists." The Conservatives undertake to end bulk purchase by the State, and "in order to lower taxes and the high cost of living" they will cut down Government spending.

The Communist Party would nationalise the chemical and the oil-refining industries.

CANDIDATES for PARLIAMENT

Personalities of pharmacy, the drug and allied trades who are standing for election on February 23

Sir Peter Bennett, O.B.E., J.P.
EDGBASTON
Conservative

Sir Peter Bennett is a director of Imperial Chemical Industries, Ltd., a past-president of the Federation of British Industries, and of the Birmingham Chamber of Commerce. From 1938-39 he was a member of the Prime Minister's Panel of Industrial Advisors.

Mrs. Winifred Carmen Glynne Bremner
BATLEY AND MORLEY
Conservative

Mrs. Bremner took degrees in mathematics and economics at Cambridge, and she joined Imperial Chemical Industries, Ltd., and worked on research. In 1945 she went over to the dyestuffs division and was employed as assistant statistician.

Mr. Richard Fort
CLITHEROE
Conservative

Mr. Fort joined Imperial Chemical Industries, Ltd., as a junior works manager in their Cheshire alkali factories in 1932. In 1940 he went with the British Purchasing Commission to buy stores in the United States. On his return he was transferred to the Ministry of Supply.

Mr. E. L. Granville
EYE, SUFFOLK
Liberal

Mr. Granville is a director of Eucryl, Ltd., and of the Veno Drug Co., Ltd. He has represented the division since 1929.

Mr. T. L. Horabin
EXETER
Labour

Mr. T. L. Horabin is a director of Perihel, Ltd. He was returned in 1945 as Liberal member for the North Cornwall division. He joined the Labour Party in 1947.

Sir Joseph Stanley Holmes
HARWICH
National Liberal and Conservative

Sir Joseph Stanley Holmes is chairman and managing director of the Beecham Group, Ltd., and chairman of many of its associated companies. He has represented Harwich since 1935.

Alderman S. H. Marshall, J.P.
SUTTON AND CHEAM
Conservative

Alderman S. H. Marshall is chairman of Marshalls Food Products, Ltd., and Tonicity Laboratories, Ltd.

Mr. T. J. V. Parry, M.P.S.
WAVERTREE, LIVERPOOL
Liberal

Mr. Thomas John Vernon Parry, Stockport, qualified as a pharmacist in 1924. He is the proprietor of a pharmacy at 349 Buxton Road, Great Moor, Stockport.

Mr. C. J. Taylor
PENRITH AND BORDER
Labour

Mr. Taylor is a director of C. J. Taylor's Embex, Ltd., Carlisle. In 1944 he contested a by-election in the Rusholme division of Manchester.

Mr. W. R. Roberts, M.P.S.
WOOLWICH WEST
Liberal

Mr. William Roden Roberts is the chief inspector of the Pharmaceutical Society under the Pharmacy Acts. He was for some years secretary of the Halifax Branch of the Pharmaceutical Society and in turn a manager and group manager for Taylors Drug Co., Ltd. He was called to the Bar at Grays Inn in 1948.

Mr. C. S. Taylor
EASTBOURNE
Conservative

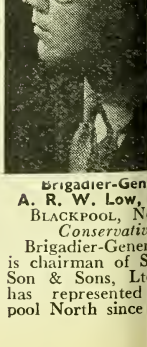
Mr. Taylor is assistant managing director of Cow & Gate, Ltd., and other companies. He has represented Eastbourne in the House of Commons since 1935, when he was returned unopposed at a by-election. He was secretary of a group of members of the now dissolved House of Commons that was called the Active Back Benchers, and whose special task was to study the rules and regulations issued daily by Ministers and Government Departments, drawing attention to any which, in their opinion, were objectionable.

Sir W. Wavell Wakefield, M.P.S.
ST. MARYLEBONE
Conservative

Sir Wavell Wakefield qualified as a pharmacist in 1926. He is a director of a number of companies, none of them directly connected with the drug trade. He has represented St. Marylebone since 1945 and was previously member for Swindon.

Mr. Hugh N. L
O.B.E., Ph
PUTNEY
Conservati

Mr. Linstead elected for Putn by-election in former Jacob B lar, he has be tary of the Ph tical Society si and, during period, was sec the Central Ph tical War Co He is a membe Poisons Board. stead is also a m the *Société de P d'Anvers*, and t maceutical Assoc Texas, and an *de l'Ordre de Publique*, Franc was called to th the Middle Te 1929, is chairma Wandsworth Gro pital Manageme mittee, and on t of the Royal H Incurables, Putn

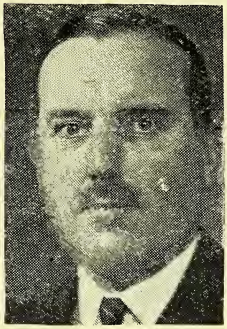


Brigadier-Gen
A. R. W. Low,
BLACKPOOL, N
Conservativ

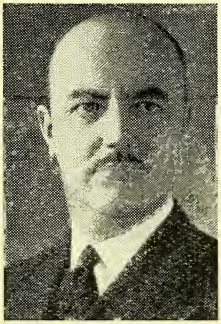
Brigadier-Gener is chairman of S Son & Sons, Ltd has represented pool North since

Geoffrey A. N. Hirst
SHIPLEY
onservative
Geoffrey Hirst is own to *C. & D.* as the chairman anaging director , Brooke & Hirst, eeds. He is also tor of the Asso- of Manufactur- emists, Ltd. He ed on numerous and local com- including the Council of the ion of British es, and the s Trade Com- He is chairman Yorkshire Re- Academic Board nced Technology ice-president of eds Chamber of ce.

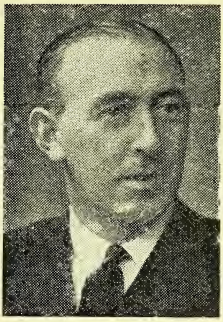
A. Geoffrey gs, A.R.I.C.
PUDSEY
Labour
. Geoffrey Col- an Honours of London y, former sec- the Chemical of Birkbeck From 1930-35 mployed in the ent Laboratory.



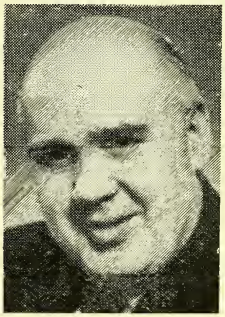
Sir A. U. M. Hudson, Bart.
LEWISHAM NORTH
Conservative
Sir Austin Hudson is a director of Morgan Bros. (Publishers), Ltd. He represented East Islington, 1922-23, and Hackney North, 1924-45. He was Assistant Conservative Whip, 1931, and Lord Commissioner of the Treasury, 1931-35; Parliamentary Secretary, Ministry of Transport, 1935-39; Civil Lord of the Admiralty, 1939-42; and Parliamentary Secretary, Ministry of Fuel and Power, 1945.



Sir Knowles Edge, Bart.
HILLSBOROUGH, SHEFFIELD
Conservative and National Liberal
Sir Knowles Edge is chairman of William Edge & Sons, Ltd., Bolton, and its associated companies (Roberts' Croupline, Ltd., Roberts' Patent Filling Machine Co., Ltd., and William Edge & Sons (Ireland), Ltd.). He represents the fourth generation of the Edge family to control the business. He graduated at Cambridge.

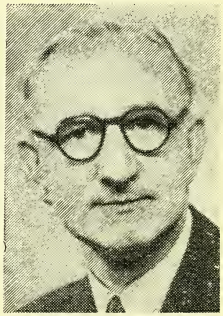


Mr. Tom Heseltine, M.P.S.
NORMANTON
Conservative and National Liberal
Mr. Heseltine is a member of the Council of the Pharmaceutical Society of Great Britain, a member of the Executive of the National Pharmaceutical Union, and a member of the Joint Pricing Committee for England under the National Health Service. He visited Germany as a member of a delegation on drugs sponsored by the Ministry of Health.



Mr. Douglas Graham
DON VALLEY
Conservative
Mr. Graham is chemist and works manager for James Robinson & Co., Ltd., aniline dye manufacturers, Huddersfield, where he started work as a laboratory assistant in 1919. He served on the management committee of the Huddersfield Industrial Co - operative Society, Ltd., and from 1942-43 was chairman of the Yorkshire Labour Advisory Committee.

Mr. Charles Hill, M.A., M.D.
LUTON
National Liberal and Conservative
Dr. Charles Hill is secretary of the British Medical Association and also well known as "the radio doctor." He is a member of the Ministry of Health's Medical Advisory Committee. He was selected by the Conservative Party as one of the speakers in its series of election broadcasts.



Major W. E. Woolley, J.P., M.P.S.
BRIGHOUSE AND SPENBOROUGH
National Liberal and Conservative
Major Woolley is a director of Cupal, Ltd., Blackburn, a former Councillor on the Blackburn borough council, and a president of the Blackburn Chamber of Commerce. He was member for the Spen Valley Division, 1940-45, was Parliamentary Private Secretary to the Minister of Health, 1943, and to the Minister of Aircraft Production.

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1 lb. jars 2/8 each	23/6 doz.
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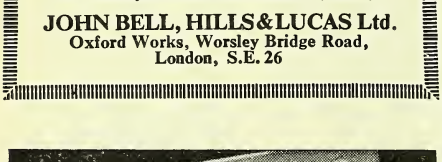

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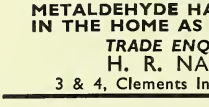

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ESTABLISHED 1859
Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades throughout the World
Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.
VOL. CLIII FEBRUARY 18, 1950 No. 3652

C. & D. Diary and Year Book

In accordance with our annual practice we give below the minor revisions and changes to be made in *The Chemist and Druggist Diary and Year Book, 1950,* to bring it up to date despite the time lag between going to press and the circulation of copies, adding any necessary corrections.

In the Trade Directory there should be added to the entry of Thomas Kerfoot & Co., Ltd., the company's head office and works address and telephone number: Bardsley Vale, Ashton-under-Lyne (Ashton-under-Lyne 1691-92). The entry "Charles Lane, Say & Farms, Ltd." should be transposed to Lane, Charles, Say & Farms, Ltd., 88 Fenchurch Street, London, E.C.3, and transferred to its alphabetical position under "L." The telephone number of Morley Rogers (Feedrite), Ltd., should be corrected to LIBerty 5443. The address of Prentif, Ltd., is Long Court, St. Martin's Street, London, W.C.2, and not as stated. To the entry of S. D. Rand, Ltd., there should be added the company's advertisement folio (p. 107).

In the Buyers' Guide, p. 244, a new entry: "'Dynotabs,' Guaiacol-Succinate Co., Hormones & Chalones, Ltd.", should be inserted, and the entry "'Ozonal' air purifiers" should be corrected to "'Ozonol' air purifiers" (the makers are Ozonol Laboratories (1930), Ltd., and not as given under a number of Buyers' Guide headings). On p. 318, "Sulfamerazine" should be altered to "Sulphamerazine."

In the text pages the name of Mr. W. Gill Hodgson, O.B.E., should be substituted for that of Mr. T. Heseltine (p. 374) as chairman of the Joint Pricing Committee for England (Mr. Heseltine is a member of the Committee but is not its chairman). To the list of branches of the National Pharmaceutical Union should be added (p. 407) Aylesbury and North Bucks (secretary, Miss H. E. Walker, 46 Well Street, Buckingham). New entries should be inserted in the list of branches of the Guild of Public Pharmacists as follows: "Chester. J. G. Roberts, City Hospital," and "Yorkshire. Miss S. M. Rivers, County Hospital, York." The initials of Mr. Downer, one of the pharmacists on the Buckingham Executive Council (p. 412) are G. F., and not as stated. The pharmacists on the West Sussex Executive Council are Messrs. J. T. W. Binns and Trevor Cale.

Recently, as will have been noted from the news columns of this paper, there has been a reorganisation necessitating amendment of the entry under the heading (p. 415) of the Association of British Pharmaceutical Industry, Mr. R. L. Taylor has become *President.* The *Chairman, Home Executive,* is Mr. C. Mervyn Hill, and the *Chairman, Export Executive,* is Mr. G. W. Miller. The secretaryship is vacant.

Hospital Pharmacy Committees

Recent developments in hospital administration as it affects pharmacists show that, while certain defects are being tackled, others are being neglected.

The thorny question of the proper division of responsibility for the purchase of pharmaceutical supplies has been faced squarely though not, perhaps, before it had to be, and, in "note" form at least (see p. 210), a practical scheme has been outlined. The Ministry's notes rightly point out that pharmacists should be consulted on pharmaceutical purchases at a high level. Once the purely business side of the contract has been attended to by others, the pharmacist should be free to place his orders within the framework of the contract (and for non-contract items) as he wishes, without their being countersigned by a non-pharmaceutical officer.

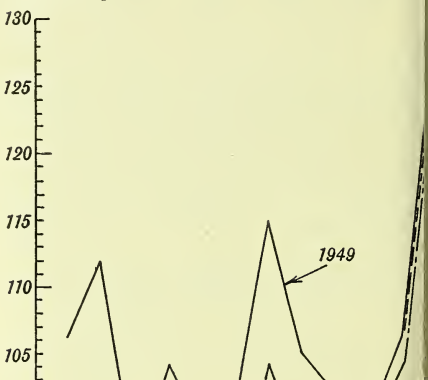
The notes mention the possible function of group pharmaceutical committees in co-ordinating hospital requirements. Possibly

the mention may be taken as prophetic, for until now, in only one or two areas (see *C. & D.*, 1949.II.631) has official recognition been given to those committees. The latest progress in this direction has been in the South-west Metropolitan region (*C. & D.*, February 11, p. 189), where the hospitals board, which will not recognise the pharmacists' committee officially, has, however, agreed to "consider" proposals from it, and to refer pharmaceutical matters to it for "comment and advice." While this decision shows a degree of enlightenment, the board seems a little unreasonable in making use of a voluntary body and yet withholding official recognition, particularly when there are precedents for that course.

It is to be hoped that the recently circulated notes from the Ministry will hasten the recognition of group pharmaceutical committees, and will stimulate Hospital Boards to encourage the formation of the committees in any areas where, so far, no effort has been made by pharmacists.

Retail Sales Reach Peak

WEEKLY sales by large-scale retailers of chemists' wares in December 1949 increased, according to the Board of Trade, by 50 per cent. compared with the previous month, and were nearly 12 per cent. more than in the previous December. Stocks held were, at cost, 13 per cent. above levels at the corresponding date a year earlier. Sales by independent chemist retailers were at a record level, more than 20 per cent. higher than the previous month's rate and the monthly average for 1949, and were 2 per cent. higher than in December 1948. The fluctuations are shown graphically on this page. The indices are based on average weekly sales in 1947 (=100). [For the large-scale concerns the figures are compiled from returns sent in each month by departmental stores, multiple shops, co-operative societies and a small number of large-scale private businesses in localities covering Great Britain. "Chemists' wares" includes drugs and medicines, surgical dressings, etc., cosmetics and toilet preparations (including soaps) and photographic goods; national health dispensing is not included. The trade of independe retail chemists is covered by separa statistics.]



Index numbers of sales per week of independ retailers (average weekly sales in 1947=100)

Nor Iron Bars a Cage

THE privations suffered by prisoners- war in the hands of the Japanese ha been described many times since the e of the war, but little has been said of t "scientific" efforts made by indefatigal pharmacists and others to produce th own drugs and dressings for the relief fellow prisoners. The experiences of P fessor Audus and Mr. Murdoch Mackenz M.P.S. (see p. 220), give some idea of t extraordinary ingenuity and patience th were applied. Professor Audus describ how, when yeast was indicated in t treatment of certain diseases, all the nec sary equipment was improvised until, ul mately, about 1 lb. of yeast a day was pr duced from maize. After only a few wee of full production, an entirely new meth of production had to be worked out wh the camp was moved. Yet, in an ama ingly short time (considering the circu

stances), sufficient extract was prepared from rice at the new camp to give sufferers the equivalent of ¼ to ½ gm. of pure yeast each day and clear up pellagra.

Mr. Murdoch Mackenzie, at South Shields, mentioned that only eighty-five persons out of 1,400 survived a cholera epidemic in one of the camps. Dressings were unobtainable, and rags, locally picked cotton and selected leaves were used to dress wounds. Jungle spinach and other plants were used as sources for vitamins.

MOTIONS FOR BRANCH REPRESENTATIVES

THE following resolutions, which are to be included on the agenda for the Pharmaceutical Society's Branch Representatives' meeting in London on May 18, are additional to three already given (see *C. & D.*, January 21, p. 63; January 28, p. 118; and February 4, p. 132).

ABERDEEN: That it is the opinion of this meeting that there are too many official or semi-official formulas and that the Society should endeavour to have all official formulas brought together in one publication. Further, it is the opinion of this meeting that no preparation should be altered materially without making a change in nomenclature.

CHESTER: That it is the opinion of this meeting that the time has now arrived when the Council of the Society should be representative of all sections of pharmacy, and that in the opinion of this meeting this is best attained by territorial representation.

DARTFORD: That it is the opinion of this meeting that the Council of the Society should report in the "Pharmaceutical Journal" their decisions on all motions approved at a Branch Representatives' meeting before the next Branch Representatives' meeting is held.

EASTBOURNE: That it is the opinion of this meeting that the Pharmaceutical Society should notify each set of registered premises of all alterations in laws, rules and regulations affecting pharmacy, and of withdrawals of authority under the D.D.A., the present method of notification in the "Pharmaceutical Journal" being unsatisfactory.

GLASGOW AND SOUTH WESTERN SCOTTISH: That it is the opinion of this meeting that Branch representatives' meetings at the British Pharmaceutical Conference should be devoted to the discussion of the policies and current affairs of pharmacy.

HUDDERSFIELD: That it is the opinion of this meeting that fuller reports of Council meetings should be given in the "Pharmaceutical Journal," and where a vote had been taken there should be a report of how members of Council voted.

LIVERPOOL: That it is the opinion of this meeting that the Society should take steps to obtain jurisdiction over the registration of new premises as pharmacies, and that no such premises should be registered without reference to the local branch.

MANSFIELD: That it is the opinion of this meeting that the advertising of dispensing services off the premises should be strictly prohibited.

PLYMOUTH: That it is the opinion of this meeting that in educational matters it is the duty of the Council to concern itself only with teaching courses designed for the acquisition of the Society's own diplomas.

READING: (1) That it is the opinion of this meeting that a progress report of action taken on resolutions passed at Branch Representatives' meetings should be published in the "Pharmaceutical Journal" at six-monthly intervals. (2) That it is the opinion of this meeting that the remuneration of pharmacists should be more clearly related to that of allied professions. (3) That it is the opinion of this meeting that all National Health Service prescriptions for hospital out-patients should be written on pink E.C.10 forms so that the patient may have free choice of dispensing service.

SHEFFIELD: (1) That it is the opinion of this meeting that the result of the man-power investigation should be published without delay, in order that the implications thereof can be given early consideration by the branches. (2) That it is the opinion of this meeting that dispensaries in Health Centres should be on the same footing as retail pharmacies in respect of inspection, registration and supervision.

WEST GLAMORGAN: (1) That it is the opinion of this meeting that the recently issued National Health Service Regulations relating to advertising are a retrograde step and urges the Council to continue to make the strongest possible representations to the Minister to bring them into line with the Society's Code of Ethics. (2) That it is the opinion of this meeting that the pharmacist responsible for the dispensing for the N.H.S. in any pharmacy should be, in every case, a contractor to the Local Executive Council.

WEST KENT: That it is the opinion of this meeting that the election of members of the Council of the Society should be on a regional basis and that all necessary steps to implement this should be taken as soon as possible.

WOKING: (1) That in the opinion of this meeting the proposal that in the investigation, etc., of pharmaceutical services' complaints, employee pharmacists shall, in certain circumstances, have the right of appearance before the appropriate N.H.S. body, is not in the interests of the profession, since it is not a step towards the proper recognition under the N.H.S. Act of pharmacists regardless of their economic status. (2) That it is the opinion of this meeting that the Council is to be congratulated on the firm attitude which it has adopted in the matter of the advertising of N.H.S. dispensing services. (3) That it is the opinion of this meeting that owners of premises which it is desired to register under the Pharmacy Acts should first give an undertaking to the Council that they will observe the provisions of the statement upon matters of professional conduct.

CHEMISTS FEDERATION

A MEETING of the Chemists Federation Council was held on February 2, when the following were elected or appointed to the Council for two years ending January 31, 1952: — *Manufacturers' Representatives:* British Alkaloids, Ltd., The British Drug Houses, Ltd., Genatosan, Ltd., The Wellcome Foundation, Ltd.; *Wholesalers' Representatives (Section A):* Sangers, Ltd.; *(Section B):* Gale, Baiss & Co., Ltd.; *Retailers' Representatives:* Messrs. Brocklehurst, Graham and Steinman (appointed by the National Pharmaceutical Union), and Mr. J. Caldwell (appointed by the Ulster Chemists' Association). The following were elected officers for the year ending January 31, 1951:—*President,* Mr. E. A. Brocklehurst; *Vice-president,* Mr. Norman Dewey; *Treasurer,* Mr. L. Boon. West & Drake, 52 Lincoln's Inn Fields, London, W.C.2. were re-elected *Auditors.* The following *Committees* were elected:—*Standards:* Messrs. R. C. Feather, C. H. Jones, S. M. Lennox, G. A. Mallinson, G. E. Mann, P. H. Smith, D. J. Steel, S. J. Stearn, H. Steinman, W. J. Tristram; N Dewey (*ex officio*), E. A. Brocklehurst (*e officio*). *Propaganda:* Messrs. L. Boon, I A. Brocklehurst, A. Chapman, N. Dewe G. H. M. Graham, F. E. Mellor, G. A Mallinson, K. G. Patteson, L. D. Smit Messrs. W. T. Elder (retailers' representa tive for Scotland) and J. Caldwell we elected *ex officio* members of both Commi tees. *Finance and Establishment:* Th president, vice-president and treasure with Messrs. R. C. Feather, G. A. Mallir son and L. D. Smith. Mr. C. J. Ha (Evans Medical Supplies, Ltd.) wa appointed C.F. manufacturers' represen tative on the Northern Ireland C.I Committee for a further period of tw years. An application for manufacture membership by Rodmill Chemical Co Ltd., 49 St. Anne Street, Liverpool (Roc mill's Gee's linctus pastilles), was approve Applications to add products to schedul were granted as follows:—Manston Med cal Products, Ltd. (Ipsolon Tablets) Sharpe & Dohme, Ltd. (Cremothalidine).

PACKAGING TEAM IN AMERICA

PACKAGING that sells at a glance is one of the requirements for British goods entering the export market, according to specialists in a British productivity team which has spent several weeks in the United States. This was the seventeenth team to report on visits to the United States under the joint sponsorship of E.C.A., the Anglo-American Productivity Council, and the British Government. It comprised twelve specialists in seven branches of packaging and a representative of the Trade Union Congress. Members gave their impressions to reporters at a recent conference in New York. Mr. Robert Lodge (Innoxa (England), Ltd.), the representative of the Toilet Preparations and Perfumery Manufacturers' Federation, supported the view that the package must sell the goods. "Don't let us change the character of our goods," he said, "but let us change the packaging." Mr. Francis West-Oran (Wood Brothers, Ltd., Barnsley), representing the Glass Manufacturers' Federation, said he had been impressed by the improvement of the quality of decorated glass containers. Enamel labelling and machine-applied metal foil labels increased the "buying-appeal" of containers, he continued. Competition of glass with tin containers and cartons had stimulated glass-making.

The big advances in mechanica packaging in the United States wer mentioned by Mr. Joseph H. Singe (assistant factory manager, Glaxo Labora tories, Ltd.), who represented British chemi cal manufacturers. He said he had in spected a large variety of packagin machines. He was most impressed b high-speed power machines which, becaus of the huge home market, were able t work for a long time continuously on single package unit. Another advantag for American package-users was the avail ability of versatile machines that could b changed for different kinds of packages i a few minutes.

Members of the team were unanimou that much work lay ahead of British manu facturers if they were to improve pack aging. Their view was expressed by th working party's leader, Mr. George M Ashwell (chief packaging adviser, Imperia Chemical Industries, Ltd., Manchester), th representative of The Packaging Institute "Even if the United Kingdom home mar ket is only one-third of that of the Unitec States and even if we are living in a stat of austerity, we still have a problem o paramount importance," he said. At it best, Mr. Ashwell concluded, British pack aging was as good as American.

LIMERICK CHEMISTS' ASSOCIATION

At the invitation of the Limerick Chemists' Association, a delegation consisting of Messrs. T. C. Scott (president, Pharmaceutical Society of Ireland), J. Kissane (vice-president of the Society), D. Woulfe (vice-chairman, Irish Drug Association), P. F. McGrath and B. Smith (I.D.A.), attended a meeting in Limerick on January 24. Mr. P. J. Hogan (chairman of the local association) welcomed the delegates and the many chemists from the county who had come long distances.

The association, he said, had formerly covered not only Limerick but the neighbouring counties, and he invited all chemists in that area to apply for membership. The larger the area covered, the greater would be the association's influence.

After a discussion on veterinary matters, the I.D.A. was asked to press its policy more vigorously. The 1949 price list was criticised, and it was suggested that price alterations should be circulated more frequently. A report was given on recent visits to the Limerick city and county managers and to the chief superintendent of the Garda on the subject of licences under the 1908 Poisons and Pharmacy Act.

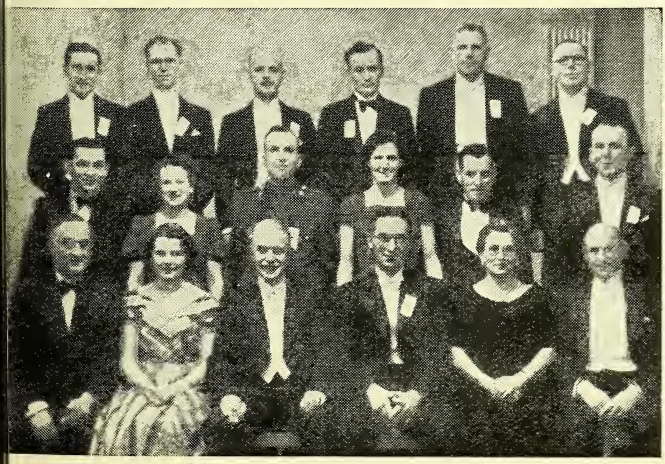
An appeal was made from the chair for greater interest in "approved" products, and members were asked to treat drastically any makers who suddenly seceded from the "approved" list in order to circulate their goods widely.

Attention was drawn to a recent leakage of an "approved" item, and members were urged to buy it from unauthorised retailers and send their purchases to the I.D.A. so that the point of leakage could be traced. After problems of local organisation had been discussed, the visiting delegates expressed their gratitude at being invited to Limerick, and gave advice on ways of making the Branch and Association more effective within the area.

The treasurer, Limerick Chemists' dance committee (Mr. H. W. Ferguson), presented the president of the Pharmaceutical Society with a cheque for £10 10s. from the proceeds for the Benevolent Fund. Members praised the work done for pharmacy in Ireland by the I.D.A., mentioning especially the restricton of a proprietary toilet preparation to chemists.

DUBLIN CLUB DANCE

The annual dance of the Pharmaceutical Chemists' and Students' Club Foundation was held in Dublin on January 26. Amongst the 400 who attended were the president of the Pharmaceutical Society of Ireland (Mr. T. C. Scott) Messrs. J. J. Roche (president, Irish Drug Association), J. Gleeson (treasurer, Pharmaceutical Society), J. G. Coleman (registrar) and Mrs. Coleman. The officers and committee responsible for organising the dance were Messrs. T. O'Keefe (chairman), T. Cosgrove (vice-chairman), M. Walshe (secretary) and W. J. Gardner (treasurer), Miss N. McEnroe (assistant secretary), Messrs. E. Browne, P. Cryan, A. Devlin, S. Fox, J. Gaffney, W. Gill, M. Hanna, C. McGarry, G. O'Connor, W. Prendeville, and J. Roche; the Misses B. Carolan, A. Desmond, P. Fallon and U. O'Reilly. Mr. Des Flanagan was M.C.



AT DUBLIN PHARMACEUTICAL CHEMISTS' AND STUDENTS' DANCE.—Group of guests and members of the dance committee who organised the Pharmaceutical Chemists' and Students' dance. in Dublin recently. Front row (left to right): Mr. J. J. Roche (president, Irish Drug Association), Miss Roche, Mr. T. C. Scott (president, Pharmaceutical Society of Ireland), Mr. T. O'Keefe (chairman of the dance committee), Mrs. Coleman, and Mr. J. Gleeson.

WAR PRISONERS ON THEIR EXPERIENCES

A JOINT meeting of the National Association of Women Pharmacists and the South-west London Chemists' Association was held in London on January 18, when Professor L. J. Audus (Professor of Botany, Bedford College), spoke on "Biology Behind Barbed Wires." Miss E. F. Hayward (president, N.A.W.P.) was in the chair.

PROFESSOR AUDUS told of his capture as a prisoner-of-war by the Japanese in Java. During the first six months, little deterioration in physical stamina was apparent, but thereafter symptoms of deficiency diseases became obvious. Theoretically the diet consisted of 550 gm. of rice, 50 gm. of meat and 350 gm. of vegetables, together with a small amount of tea and sugar. In practice it became 350 gm. of rice, 0.5 gm. of meat and 0.35 gm. of vegetables. The main diseases were beri-beri and pellagra, but special symptoms affecting the eyes were also experienced, causing partial and sometimes total blindness. The exact cause was unknown, but deficiencies of protein and vitamins were suspected. Treatment with drugs had not been possible but some attempt was made to alleviate the suffering by diverting the more nutritious foods from prisoners in less need than the sufferers. A number of Dutch prisoners, transferred from another camp reported that similar symptoms had been relieved with yeast. Supplies of yeast, however, were also unobtainable, and it was suggested that Professor Audus might attempt to make some.

The brewing process was considered a possibility, provided that a suitable cereal could be obtained, and with some difficulty, about 1 cwt. of maize was secured. No apparatus was available, though army dispensers were discovered to have a few test-tubes, a spirit-lamp and a pipette or two, and no one had any knowledge of brewing.

Improvised Steriliser

An old packing shed was found where gas was laid on. A Bunsen burner was improvised from a piece of brass tubing, and a steriliser from a disused domestic heater large enough to hold one 4-gall. petrol tin. Electrical heating was improvised from a piece of asbestos and some wire. An old Dutch field-kitchen was adapted for use as a thermostatic bath by using two metal sheets, each attached to a terminal of a.c. mains and immersed as a conduction heater. A thermostatic device was also evolved, and a thermometer made from a piece of capillary tubing, drop of mercury (the discovery was fortu tous), and using ice for calibration.

Yeast from Maize

With the equipment thus prepared, th following method was finally used:—Maiz was soaked for two days and germinate then put through a mincing machine an mixed with four times its volume of wate The mash was put into tins and left in bath at 50° C. for fifteen hours. Th resultant liquid was filtered through sack then sandfly netting, and finally sterilise inoculated with a pure culture of yeas and fermented for two days. The brow supernatant liquid was poured off, an the yellow sludge that remained consiste of 50 per cent. starch and 50 per cen yeast. Production of yeast was about 1 lb per day. After a few weeks of full produc tion the Japanese moved the camp an all of the equipment had to be left be hind, only the thermometer being salvage

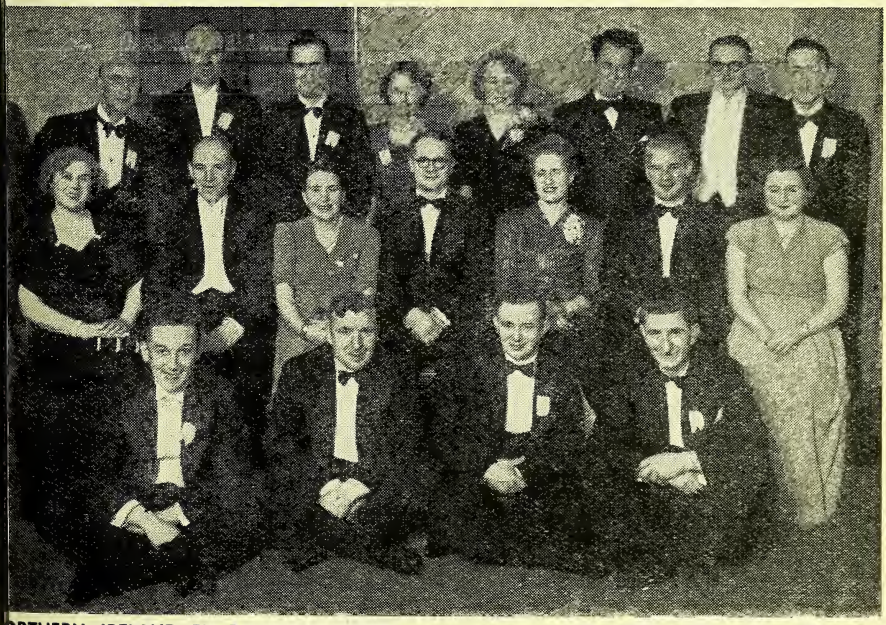
The voyage to the Moluccas was mad under such conditions that, within thre weeks after arrival on the small island o Haroekoe, half the camp was down wit dysentery and over four hundred die Those who recovered showed aggravate symptoms of the deficiency diseases and i was decided once again to attempt th manufacture of yeast. Conditions wer even less favourable as the camp was i partially cleared jungle and no maiz could be obtained. The only raw materia available was rice, but the grains were ol and non-viable.

The speaker and a Dutch botanis agreed to attempt production, using th knowledge that moulds are rich in enzymes A fungus, *Rhizopus oryzæ,* was soon iso lated. This would grow on the rice grains and the operation was worked out by ex periment, measuring the sugar content o the various solutions by means of a smal quantity of Fehling's solution. Perfectio of the technique took nearly four months and the method was as follows:—The ric was steamed and placed in trays, whic were boxes made of slats, in which foo supplies were received. Rice sacks wer placed at the bottom and they were ther lined with leaves. Layers of the steame rice, a powder rich in the spores of th fungus, and more leaves were placed int the trays until filled: they were covere again with leaves and left for a day t

low the spores to germinate and the ngus hyphæ to spread through the rice. he trays were then uncovered and al- wed to cool for a further nine hours, as e temperature during the growth of the ngus rose to 5° C. above air temperature d, if left at that high level, would ve destroyed the fungus. The white, ick blanket of rice and interwoven mould yphæ was then crumbled into tins, which ere placed in large wooden vats made by utch prisoners-of-war from jungle wood, ing only hatchets. The mass was mixed a mash with water and placed in earth- ware jars, and the temperature raised 60° C. by the addition of hot water. he jars were those in which natives sent negar to the Japanese. These were aced in tea-chests lined with rice-sacks "hot-boxes" being left overnight, d the result was the complete diges- on of the rice, leaving a thick syrupy uid and a mass of fungal residue, gether with a small amount of starch. he liquid was filtered through mosquito tting into large cooking vats, heated to ° C. to kill stray bacteria, and cooled ring the day in iron cooking pots. The liquid was inoculated with the pure culture and left for two days. An amount of 1 to 200 c.c. was given to each man daily.

Jungle Spinach as Vitamin Source

At a meeting of the South Shields Pharmacists' Association on January 8, a talk was given by Mr. Murdoch Mackenzie, M.B.E., M.P.S. (a member of the Association) on "Medical Aspects of Life in Japanese Prisoner-of-war Camps." Almost every disease was encountered, pellagra and malaria being universal, and cholera, dysentery and black-water fever frequent. Grass extracts and a species of lentil, grown on sack-lined tins, and jungle spinach were used for vitamins, whilst rags, locally-picked cotton or leaves became dressings. Operations were performed with primitive equipment. The speaker had once read the burial service over 250 victims in one day, eighty-five persons only surviving out of 1,400 during a cholera epidemic. The speaker closed with a warm tribute to the work of the doctors, omitting to mention the wonders he must have performed himself as a pharmacist. A vote of thanks was proposed by Mr. W. A. Power.



RTHERN IRELAND PHARMACISTS' DANCE.—Committee members and friends of the Guild of St. bert and St. Gemma at the Guild's recent annual dance in Belfast. The group includes the vice-president d treasurer of the Pharmaceutical Society of Northern Ireland (Messrs. H. W. Gamble and W. H. Boyd)

COSMETICS PRICE REDUCTIONS

THE Proprietary Articles Trade Association has supplied the following list of price reductions made by its manufacturer members as a result of negotiations between the Toilet Preparations and Perfumery Manufacturers' Federation and the Board of Trade. The new standard wholesale prices quoted are now in force. The retail selling prices (which include purchase tax) take effect on March 1.

Bourjois, Ltd., Bourjois rouge No. 117, 5s. 10d. doz., 1s. 2d.; Evening in Paris products (added to price list), No. 9059 lipstick, 29s. 6d. doz., 6s.; No. 2902 miniature perfume, 12s. doz., 2s. 6d.; No. 1296 perfume, 32s. 6d. doz., 6s. 9d.; No. 6378 talcum powder, 14s. doz., 2s. 11d.; No. 9060 vanishing cream, tube, 7s. 3d. doz., 1s. 6d.; No. 9044 hair cream, 13s. 3d. doz., 2s. 9d.; No. 6261 liquid brilliantine, 17s. doz., 3s. 6d.; No. 1280 solid brilliantine, 13s. 3d. doz., 2s. 9d.; Ashes of Roses No. 41, perfume, 9s. 8d. doz., 2s.

Chesebrough Manufacturing Co., Ltd., Vaseline hair tonic, 13s. doz., 2s. 6½d.; 20s. 6d. doz., 4s.

County Perfumery Co., Ltd., Brylcreem, jar, No. A476, 9s. 1d. doz., 1s. 10½d.; small tub, No. A477, 9s. 1d. doz., 1s. 10½d.

Crystal Products Co., Ltd., Outdoor Girl preparations, cream rouge, 6s. 2d. doz., 1s. 3d.; eye shadow, 6s. 2d. doz., 1s. 3d.; vanishing, cold, four-purpose and powder creams, jars, 8s. 6d. doz., 1s. 9d.; Hollywood perfume, 7s. 4d. doz., 1s. 6d.

A. S. Hinds, Ltd. (agents, *Lehn & Finck Products, Ltd.*), Hinds cream, tube, 5s. 6d. doz., 1s. 1d. (£3 orders, 5s. 3d. doz.; £7 10s. orders, 5s. doz.).

Henry C. Miner, Ltd., Liquid make-up, liquid stockings and milk of olives, 12s. doz., 2s. 6d.; Posy perfume, 8s. 6d. doz., 1s. 9d.; Chap-Silk, 6s. 2d. doz., 1s. 3d.

Northam Warren, Ltd. (agents, *J. C. Gambles & Co., Ltd.*), Cutex manicuring series, cuticle remover T1, clear liquid polish T10, creme liquid polish T22, polish foundation T23, polish remover T30, cuticle creme 13, cuticle oil 14, 10s. doz., 2s. 1d.; nail shampoo 3, 13s. 3d. doz., 2s. 9d.

Ponds Extract Co., Ltd., Pond's vanishing, cold and liquefying creams, jars, 12s. 4½d. doz., 2s. 5d.; 24s. 9d. doz., 4s. 10d.; cold cream, extra large jar, 49s. 6d. doz., 9s. 8d.; vanishing and cold creams, small tubes, 5s. 6d. doz., 1s. 1d.; large tubes, 10s. 1½d. doz., 2s.; face powder, medium box, 10s. 1½d. doz., 2s.; face powder, large box, 17s. 4d. doz., 3s. 5d. (£5 orders: vanishing, cold and liquefying creams, medium jars, 11s. doz., large jars, 22s. doz.; cold cream, extra large jar, 44s. doz.; vanishing and cold creams, small tubes, 4s. 8d. doz.; vanishing and cold creams, large tubes, 9s. doz.; face powder, medium box, 9s. doz.; face powder, large box, 15s. 5d. doz.

R. J. Reuter Co., Ltd., 4711 products, eau de Cologne genuine, 12/1, 195s. doz., 37s. 6d.; 13/1, 142s. 10½d. doz., 27s. 6d.; 14/1, 115s. 6d. doz., 22s. 3d.; 15, 75s. 4½d. doz.; 14s. 6d.; 16, 39s. 9d. doz., 7s. 8d.; 43, 20s. 10d., 4s.; eau de Cologne *Double Imperiale*, 9012, 147s. 4d. doz., 29s. 6d.; 9013, 107s. 1d. doz., 21s. 6d.; 9015, 57s. 5d. doz., 11s. 6d.; 9016, 30s. 10d. doz., 6s. 2d.; 9043, 17s. 6d. doz., 3s. 6d.; eau de Cologne *La Bohème*, 9911, 170s. 10d. doz., 34s. 3d.; 9913, 123s. 7d. doz., 24s. 9d.; 9915, 72s. 5d. doz., 14s. 6d.; 9916, 39s. 2d. doz., 7s. 10d.; 9943, 20s. 8d. doz., 4s. 2d.; concentrated perfumes: *La Bohème*, 3610, 168s. 4d. doz., 33s. 9d.; 3615, 89s. 10d. doz., 18s.; 3621, 41s. 2d. doz., 8s. 3d.; Rhinegold, 3715, 142s. 3d. doz., 28s. 6d.; 3720, 61s. 2d. doz., 12s. 3d.; all purpose hand-cream, 9068, 21s. doz., 4s. 3d.; main creme, 5060 and 5061, cold cream, 5160 and 5161, 26s. 7d. doz., 5s. 4d.; liquefying cleansing cream, 5360 and 5361, 17s. 6d. doz., 3s. 6d.; astringent refresher, 9678, cleansing milk, 9679, and toilet talcum, 9114, 24s. 10d. doz., 5s.; lipstick, 9254, 32s. 5d. doz., 6s. 6d.; Portugal hygienic hair-tonic, 4045/14 and 4065/14, 40s. doz., 8s.

Prichard & Constance (Mfg.), Ltd., Amami wave set (green or spirituous), small size, 5s. 5d. doz., 1s. 1d.

Silvikrin Laboratories, Ltd. (agents, *Prichard & Constance (Mfg.), Ltd.*), Silvikrin lotion, small, 13s. doz., 2s. 6½d.; Silvikrin lotion with oil, small, 13s. doz., 2s. 6½d.

Tattoo Cosmetics, Ltd. (agents, *Fassett & Johnson, Ltd.*), Lipsticks, medium, 14s. 6d. doz., 3s.

OVERSEAS NEWS

U.S. Chemical Imports.—The United States imported chemicals and allied products in September 1949, with an estimated value of $8.5 millions, an increase of about $900,000 on the previous month.

Mexico Nationalises Drug Firms. — The Mexican Government is planning to establish a nationally run pharmaceutical products company utilising the property of formerly German owned businesses.

Streptomycin Conference. — A conference on the treatment of tuberculous meningitis with streptomycin, called by the United Nations International Children's Emergency Fund, the World Health Organisation and the International Children's Centre, Paris, and held in Paris from February 9 to 12, was attended by European and U.S. specialists.

U.S. Fair for Dollar Earners. — The United States is to stage an international trade fair at Chicago, August 7-19. The Fair is intended to assist Western European countries in need of dollars to sell their goods in the United States, and a large proportion of the Fair will be allotted to Western European exhibitors. United Kingdom exhibitors may obtain general information from the Exhibitions and Fairs Division of the Board of Trade. Space may be booked through Mr. A. P. Wales, 16 Shelton Street, London, W.C.2.

CORRESPONDENCE

Educational Policy

SIR,—The letter by your correspondent, S. Whitelaw (*C. & D.*, February 4, p. 9), certainly shows a great deal of com- on sense on problems which will face armacy. I think the majority of phar- acists agree with the raising of the edu- tional standard, but I also think many ok rather nervously at the limits to hich this course might go. Are we going be educated out of existence? We can along with our heads in the clouds th many roseate dreams, but one must p one's feet on the ground. As phar- acists we owe a duty to the community maintain an adequate pharmaceutical vice. If the educational standards act as deterrent to entering pharmacy or if, ing to the new regulations, more stu- nts opt for research or hospitals and ve a dearth of personnel for retail phar- acies, two things may ultimately occur: her the dilution of the pharmaceutical ofession by Apothecaries' Hall dispensers, the taking-over by the State of the phar- aceutical services, and the disappearance the Pharmaceutical Society as we know The majority of pharmacists are M.P.S." and, I think, proud of that qua- cation. It behoves us to advance cau- usly in the raising of the educational ndards.

ONEN HA OL.

Papers for the Conference

SIR,—The annual meeting of the British armaceutical Conference for 1950 will held in Glasgow, September 4 to 8, in- sive. The usual Science Sessions will be d for the reading and discussion of pers, and we shall be glad to receive mmunications from research workers on jects of practical pharmaceutical in- est. It would be helpful if those who pose to contribute papers would let us w the titles as soon as possible. The t date for the receipt of manuscripts is y 1. Papers accepted for the Confer- e will be published in the "Journal Pharmacy and Pharmacology," and thors will be entitled to a limited num- of reprints. Authors are asked to make ir papers as concise as possible, and a ximum of 4,000 words is suggested. The nference Executive Committee has de- ed that, in order to ensure adequate e for discussion and thereby enhance interest and value of the Science Ses- ns, a measure of control shall be exercised over the time taken in reading each paper. Authors are accordingly asked to submit with their manuscripts a *précis* of their contribution, not exceeding 750 words, and to present their paper to the Conference by reading the *précis*. It is, of course, hoped that by courtesy of the editor of the "Journal of Pharmacy and Pharmacology," galley proofs of each paper, in full, will be available as usual before the Conference meets. The subject for the Symposium Session has not yet been finally selected. The Executive thought that, before a decision was reached, members of the Conference might welcome an opportunity of making suggestions on the matter. We accordingly invite proposals, which should be sent to the honorary general secretaries as soon as possible, and in any event not later than February 28. Subjects suggested should be of a practical nature and such as are likely to have an appeal to the general body of members of the Conference. The details of the programme and the arrangements for booking hotel accommodation will be published shortly.

H. TREVES BROWN,
H. G. ROLFE,
Honorary General Secretaries.

London, W.C.1.

Purchase Tax Rebates

SIR,—I have received the following letter from the Commissioners of Customs and Excise:—

> In reply to your letter, it has not yet been found possible to devise a practical and equitable scheme of rebates which would be fair as between one trade and another.

To this I have replied as follows:—

> No need to worry about such a scheme—all you have to do is to repay the tax to the wholesaler or manufacturer, and they will repay the retailer.

S. E. A.

A PHARMACIST'S ANTHOLOGY

NEXT to him is Doctor Morbific, who has been all over the world to prove that there is no such thing as contagion, and has inoculated himself with plague, yellow fever, and every variety of pestilence, and is still alive to tell the story. I am very shy of him, too; for I look on him as a walking phial of wrath, corked full of all infections, and not to be touched without extreme hazard.—*From "Crotchet Castle," by T. L. Peacock.*

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quant ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex Street, W.C.2, Feb. 15

A FAIR demand is reported in most sections of the PHARMACEUTICAL and FINE CHEMICALS market. Following the increase in the price of SULPHANILAMIDE, an advance has been made in quotations for SULPHAGUANIDINE; 1-cwt. lots are now 19s. 3d. per lb., against the former price of 18s. 6d. METHYL IODIDE has risen by 10s. per lb. Makers of PARA-AMINOSALICYLIC ACID have cut prices substantially, as a result of increasing production. Although the supply position of CAFFEINE and THEOBROMINE is still rather difficult there has been some improvement in deliveries. Trade in CRUDE DRUGS has been slow; it is thought that consumers are well placed for stocks and, in view of current high prices, are only purchasing pressing requirements. A firmer tendency is apparent in Japanese AGAR for shipment, although prices are still well under the level of spot values; Japanese material on the spot was shipped from Hong Kong and is available for export, but supplies of agar now coming along from Japan are restricted to the home trade; CANADA BALSAM on the spot is firm at late values, with no supplies available at source. CASCARILLA, siftings, is an easier market. SENEGA continues in poor request and holders are prepared to accept rather lower prices although the origin is firm. Belgian VALERIAN is dearer on the spot. Tinnevelly SENNA PODS are firm; No. 3 grade is short on the spot and in good demand. A fair inquiry is reported for Nicaraguan IPECACUANHA, mainly on a c.i.f. basis. Manufacturing HONEY is about 4s. per lb. cheaper. In SPICES, prices of CLOVES have risen and GINGER is a firm market. Activity in ESSENTIAL OILS markets has been on a moderate level during the past week. Ceylon CITRONELLA and Indian LEMONGRASS are firm, and higher prices are indicated for Bourbon GERANIUM and PALMAROSA. Chinese oils, ANISE, CASSIA and PEPPERMINT, are slightly lower in price.

U.S. Drug and Chemical Report

New York, February 10

THERE have been few price changes in the PHARMACEUTICAL and FINE CHEMICALS market. Synthetic VITAMIN A has been more plentiful in recent weeks and prices have fallen by about ten cents per million units. Prices of DESOXYEPHEDRINE HYDROCHLORIDE are lower by $1.50 per lb. There is only limited activity in CRUDE DRUGS, but prices remain firm. Imported DIGITALIS LEAVES have been advanced 10 cents per lb. (to 80 cents). African GINGER has been advanced a further one cent per lb., and Cochin is up 12 cents per lb.; ginger is in very short supply. Indi may impose an additional export tax o PEPPER, which would increase the pric by about 10 cents per lb. Jamaic PIMENTO is fractionally easier on the spo Chinese CANTHARIDES have risen by 1 cents per lb. on the spot as a result c the uncertainty of getting replacement GALANGAL ROOT, stocks of which were r cently augmented with an arrival of 10 bales from Hong Kong, has been, neve theless, increased by two cents per lb There have been offerings of MENTHO from Brazil at $9 per lb. for April-Ma shipment—equivalent to $10.10 per lb duty paid. It is also reported that a floo price has been set on MENTHOL in Chin at $9.60 per lb., c. and f. Tientsin. Ther is little interest in futures here, howeve as the main consuming season is drawin to a close. The current spot price $10.60 per lb. for five to ten-case lot might possibly be shaded. BALSAM TOL is offered at $2.40 per lb., or 10 cents b low the previous quotation. In the Es SENTIAL OILS market, the scarcity c GERANIUM has resulted in more interes for PALMAROSA with a resultant strength ening in the latter oil. Algerian an Bourbon oils have risen — the former b 25 cents per lb., the latter by 75 cent Bourbon VETIVERT was increased by 7 cents per lb., a rise which is not sur prising in view of the current strength o most oils from Réunion. ANISE OIL price have not been increased during the week Demand for WORMSEED OIL is expecte to increase in the coming weeks and price have already advanced to $4 per lb. fro $3.75 last week.

Pharmaceutical Chemicals

p-AMINOSALICYLIC ACID. — Prices ar lower; 1-kilo lots are £8 5s. per kilo, les 12½ per cent. to wholesale distributors.

BARBITONE.—Rates per lb. are as fol lows:—1 cwt., 35s.; 28 lb., 36s.; 7 lb 37s.; 1 lb., 38s. The SODIUM SALT is no 1s. per lb. more than the base.

BENZYL BENZOATE. — Makers offer B.I grade at from 4s. 3d. to 5s. per lb.

CALAMINE.—1-cwt. lots are now quote at 1s. 9d. per lb.

CALCIFEROL. — A weak market: 1-kil lots (in 25-gm. ampoules) are quoted a 5s. 6d. per gm.

CALCIUM GLUCONATE.—Quantities of up wards from 3 cwt. are quoted at 3s. 6d per lb.; 1 cwt.-2 cwt., 3s. 7d. per lb. smaller quantities up to 3s. 10d. per lb.

CALCIUM SUCCINATE. — Quotations ar from 9s. 6d. to 12s. 6d. per lb., as to quan tity. SUCCINIC ACID is from 8s. 6d. t 11s. 6d. per lb.

CHLOROFORM.—1-cwt. lots in winchesters e now 3s. 2½d. per lb.; 56-lb., 3s. 3d. drums, prices are 3s. 1d. and 3s. 1½d. r lb., respectively.

CINCHOPHEN.—Prices are from 25s. to s. per lb., as to quantity.

ETHER.—SOLVENT, B.P., and TECHNICAL ades are now at the same prices, as fol- ws:— 1-ton, 1s. 6½d. per lb.; 10-cwt., 7½d., 5-cwt., 1s. 8½d.; smaller quanti- s from 1s. 9½d. to 1s. 11d. per lb. NÆSTHETIC, B.P., is unchanged, 1-ton is 5½d. per lb.; 10-cwt., 2s. 6½d.; 5-cwt., 7½d.; 1-cwt., 2s. 8d.; smaller quantities, m 2s. 9½d. per lb. The foregoing rates e for ethers packed in winchesters; in rboys or drums prices are 1½d. per lb. s.

HEXAMINE. — B.P. is offered at from 8d. to 2s. per lb., as to quantity.

HEXOBARBITONE.—Quotations are in the ion of 77s. per lb.

HOMATROPINE.—Makers' prices per oz., e as follows (prices per gm. in brackets): LKALOID.—1 oz. 97s. 6d.; 4 oz., 92s. 6d.; oz., 87s. 6d. (4s.). HYDROCHLORIDE, DROBROMIDE and SULPHATE.—1 oz., 75s.; oz., 70s.; 16 oz., 65s. (3s. 2d.).

HYDROCYANIC ACID. — B.P.C. (Scheele's) quoted at 1s. 5½d. per lb. and B.P. at 1½d. per lb.

HYDROQUINONE.—Bulk rates are as fol- ws: 10 cwt., 9s. 6d.; 5 cwt., 9s. 9d.; cwt., 10s.; 28 lb., 11s.; 14 lb., 11s. 3d.; b., 11s. 6d. per lb. Carriage paid in U.K.

HYOSCINE HYDROBROMIDE. — Makers' ces are from 115s. to 125s. per oz., cording to quantity.

HYPOPHOSPHITES.—Makers' rates per lb. 7-lb. lots are: AMMONIUM, 9s. 3d.; RIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 5d.; POTASSIUM, 6s. 1d.; SODIUM, 7d. HYPOPHOSPHOROUS ACID.—In win- sters prices are around 6s. 2d. per lb.; carboys, 5s. 10d. per lb. asked.

IODOPHTHALEIN. — Quotations are from s. 6d. to 60s. per lb., as to quantity.

KAOLIN.—In 1-cwt. bags, LIGHT is quo- at 56s. per cwt., and HEAVY at about s. 6d. per cwt.

LACTOSE.—5-ton lots in 2-cwt. non- urnable kegs is £130 per ton; 10-cwt. s. £133 10s. per ton; less than 10-cwt., 35 per ton. In 1-cwt. non-returnable s prices are 1s. more, and in 1-cwt. per-lined bags, 5s. per cwt. less than above rates.

MAGNESIUM OXIDE. — Cases containing lb. in bulk of HEAVY, B.P., are at the e of 4s. 1d. per lb. (56 lb. in 1-lb. con- ners are 5s. 3d. per lb.). LIGHT, B.P., bulk is from 2s. 7d. to 2s. 10d. per lb., l from 2s. 11d. to 3s. 2d. in 1-lb. con- ners, as to quantity; smaller quantities -lb. but less than 1-cwt.) are from 5d. to 3s. 9d. per lb., as to pack.

MAGNESIUM CARBONATE.—Rates per cwt. for LIGHT, B.P., are as follows: Not less than 1 cwt., 115s. 10d.; 5-cwt. lots, 110s. 10d.; 10-cwt., 109s. 10d.; 1-ton, 108s. 10d.; in 28-lb. parcels, delivered in the U.K. Scheduled rates per lb. in the home market for quantities of 28 lb. to under 1 cwt. are: 1s. 3d. (28-lb. con- tainers); 1s. 4d. (14-lb.); 1s. 4½d. (7-lb.); 1s. 6d. (2-lb.); 1s. 7d. (1-lb.).

MAGNESIUM TRISILICATE (B.P.)—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28-lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Larger quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages carriage paid.

MANDELIC ACID.—1-cwt. lots in 28-lb. containers are quoted at 9s. per lb.

METOL.—Steady. Prices per lb. are: 10 cwt., 19s.; 5 cwt., 19s. 6d.; 1 cwt., 20s.; 28 lb., 21s.; 14 lb., 23s.; 7 lb., 24s. Carriage paid in the United Kingdom.

ORTHOCAINE.—Quotations are from 120s. to 125s. per lb., as to quantity.

PEPTONE. — Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHENYTOIN SODIUM. — Quotations for small quantities are at about 35s. per lb.; the base is available at the same price.

PIPERAZINE.—French material is offered at from 110s. to 120s. per kilo (smalls, 4s. 9d. to 5s. per oz.).

POTASSIUM BROMATE. — Makers' prices per lb. are as follows:—One cwt., 5s. 3d.; 56-lb., 5s. 9d.; 28-lb., 6s. 3d.; smaller quantities up to 6s. 9d.

SULPHACETAMIDE. — Quotations are in region of 26s. to 30s. per lb. The SODIUM derivative is 32s. 6d. to 36s. 6d. per lb.

SULPHAGUANIDINE. — Dearer. Price of 1-cwt. lots has risen from 18s. 6d. to 19s. 3d. per lb.; 14-lb. lots are now 20s. 6d. per lb., compared with the previous price of 19s. for this quantity.

TARTARIC ACID B.P. — British makers' current scales are:—10 cwt. and over, 170s.; 5-9 cwt., 172s.; 2-4 cwt., 174s.; 1 cwt., 176s. per cwt., delivered.

TEREBENE.—Carboy lots are now 3s. 6d. per lb.; 24 winchesters, 3s. 7½d.; 6 win- chesters, 4s. 2d.; 1 winchester, 4s. 6d.

TERPINEOL.—B.P. quality in 1-cwt. lots is now 3s. per lb., with smaller quantities up to 3s. 6d. per lb.

THEOBROMINE. — Makers' prices are as follows:—ALKALOID, B.P.C., is from 37s. (1-cwt. lots) to 39s. (7-lb.) per lb. CAL- CIUM SALICYLATE and SODIUM SALICYLATE, B.P., are 21s. 6d. to 23s. 6d. per lb. SODIUM BENZOATE is 23s. to 25s. per lb.

THEOPHYLLINE. — Prices of ALKALOID range from 60s. to 65s. per lb., as to quan- tity; with ethylene diamine (AMINOPHYL- LINE B.P.) the price is 65s. per lb. in 28-lb. lots.

Crude Drugs

AGAR. — The shipment market has strengthened and quotations are now from 8s. to 8s. 6d. per lb., c.i.f., for Kobé No. 1 strip; goods afloat, 9s. 3d. to 9s. 6d., landed, duty paid terms. Spot quotations are around 14s. 6d. per lb., duty paid.

ALOES.—Steady. Cape is quoted at from 117s. 6d. to 120s. per cwt., spot; Curaçao is from 220s. to 225s. per cwt., on the spot; from origin, 215s. per cwt., c.i.f.

ANISE (STAR).—Spot quotations are at 145s. per cwt., duty paid.

ARNICA FLOWERS.—Supplies are available at 1s. 8d. per lb., spot, duty paid.

ASAFETIDA. — Little interest displayed. Persian block on spot is offering at prices from £14 10s. to £24 per cwt., as to grade.

BALSAMS.—*Canada* on the spot is firmly held at 18s. per lb. Pará *Copaiba* is 8s. per lb., duty paid; 7s. 6d. in bond. San Salvador *Peru* is at from 6s. 6d. to 7s. per lb., duty paid. *Tolu* is from 19s. to 19s. 3d. per lb., spot; for shipment, 18s. 9d. to 19s., c.i.f., quoted.

BELLADONNA. — Jugo-Slav root, from 3s. 8d. to 4s. 3d. per lb., duty paid; Italian root, quoted at from 3s. 6d. to 3s. 9d. per lb., duty paid. Jugo-Slav herb is offering at 6s. 6d., duty paid. English leaves are quoted at 4s. 6d. per lb.

BENZOIN.—Sumatra block on the spot is quoted at from £18 to £19 per cwt.

CAMPHOR. — Chinese tablets are quoted at from 5s. 6d. per lb. for ¼-oz. and from 5s. 3d. for ½-oz.; 2½-lb. slabs are from 5s. to 5s. 3d. per lb.; all duty paid, spot London. Refined powder (B.P.) is offered at from 4s. 6d. to 5s., duty paid; and B.B. grade from 4s. per lb., duty paid, spot. B.P. powder, afloat, is quoted at from 3s. 6d. to 3s. 9d., landed, duty paid.

CASCARILLA.—Spot offers of quills are at 1s. 3d. per lb.; siftings, 1s.

CHERRY BARK. — Thin natural on the spot is quoted at 2s. 3d. per lb., duty paid. A steady demand reported.

CLOVES.—Dearer. Zanzibar on the spot is from 1s. 5½d. per lb.; February-March shipment, 1s. 6d., c.i.f. Madagascar in bond is quoted at 1s. 5½d.

DRAGONS BLOOD. — A quiet market. Singapore reboiled No. 1, £60 per cwt., spot; No. 2, £47 10s. per cwt.

ELEMI. — Manilla No. 1 is quoted at 1s. 9d. per lb., on the spot.

ERGOT.—Spot offers are in the region of 27s. per lb. for Portuguese.

GENTIAN.—French natural on the spot is quoted at from 72s. 6d. per cwt.; replacement prices are higher.

GINGER.—Firm. African on the spot is offered at 345s. per cwt. February-April shipment, 330s., c.i.f., quoted. Jamaican, new-crop No. 3, is offered at 355s. per cwt., spot; February-April, 335s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts on the spot, offered at 86s. per cwt., spot London or Liverpool; February-March shipment, 80s., c.i.f. Bleached gum, 135s., spot. Talha is 50s. per cwt., on spot; shipment, 48s., c.i.f.

HONEY. — Quotations (per cwt.) for manufacturing honey are as follows: 1 cwt., 92s.; 5 cwt., 87s.; 10 cwt., 83s.; 20 cwt., 80s., packed in 60-lb. drums, carriage paid. Refined repacked honey is available at the following rates per cwt.: In 56-lb. tins, 100s.; 28 lb., 115s.; cases of four 7-lb., 130s., carriage paid.

IPECACUANHA.—Nicaraguan on the spot is offered at from 42s. to 42s. 6d. per lb.; February-March shipment, 38s. 6d., c.i.f. Colombian is quoted at 35s. per lb., spot; forward, 30s., c.i.f.

JALAP.—Vera Cruz on the spot is offered at from 4s. to 5s. per lb., as to test; Brazilian, 2s. 9d., nominal.

KAMALA. — Spot quotations are from 2s. 3d. per lb.; dearer to come forward.

KARAYA. — Selected is offered at 290s. per cwt., spot; No. 1, 255s.; No. 2, 215s.; No. 3, 180s.

KOLA NUTS.—Steady. African quarters, 6d. per lb.; halves from 2¾d. to 4½d. Jamaican washed halves, 3½d. per lb.

LANOLIN.—B.P. anhydrous is £120 per ton; hydrous, £90. Superfine anhydrous is quoted at £126 per ton.

LIQUORICE.—Anatolian natural root on the spot is from 42s. 6d. to 45s. per cwt.; to arrive, 42s. 6d. Syrian natural is from 40s. to 45s., spot. Turkish block juice is quoted at from 160s. to 230s., duty paid, according to holder; Turkish stick is from 300s., duty paid. Italian stick is from 285s. to 475s. per cwt., duty paid, for druggists' grades.

LYCOPODIUM.—Higher prices are asked. Russian triple-sifted on the spot is quoted at from 12s. 9d. to 15s. per lb., according to holder.

MALT EXTRACT.—B.P. quality is quoted at 86s. per cwt. in 1-cwt. or 56-lb. returnable drums; with COD-LIVER OIL (15 per cent. v/v.) the price is 99s. 6d. per cwt.; carriage paid.

MASTIC.—Small tears (No. 2) are quoted at 12s. 6d. per lb., spot.

MENTHOL.—Spot quotations for Brazil are from 86s. to 87s. per lb., duty paid; first-hand sellers offer April-May shipment at 77s. 6d., c.i.f., but dealers are quoting 75s., c.i.f. Chinese is offering at from 78s. to 90s., c.i.f., as to port of shipment.

OLIBANUM.—Best drop is quoted at from 220s. to 225s., and medium drop at 190s.; peas are 200s., fair garblings, 125s.; siftings, 95s. per cwt., spot, buyers.

RHUBARB. — Chinese rough round for shipment is quoted at from 6s. 6d. to 7s. 6d. per lb., c.i.f.

RHATANY.—Quiet. Spot quotations are nchanged at 9d. per lb.

SEEDS. — The ANISE market is quiet. 'urkish remains at 155s. per cwt., in ond, and 165s. per cwt., duty paid. gyptian is offering at 150s. per cwt., in ond, London. CARAWAY.—Dutch is in oor demand at 122s. 6d. per cwt., duty aid, spot London. CELERY.—Market firm. ndian is now at 1s. 10d. per lb., spot ondon; French, 250s. per cwt., duty paid, nded London. CORIANDER.—Market still sing. Morocco, for shipment, is now quo- d at 93s. to 94s. per cwt., c.i.f., London. usiness reported during the week at 95s. r cwt., in bond, London; nominal price, ty paid, is 105s. per cwt. All first-hand rgentine has been cleared. Indian sound oriander, for shipment, is now quoted 92s. per cwt., c.i.f., London. CUMIN.— arket unchanged. Morocco on spot is 5s. per cwt., in bond, and 180s. per t., duty paid; for shipment, 160s. per t., c.i.f., U.K., quoted. Indian is 160s. r cwt., spot London or Liverpool. DILL. Indian was in poor demand during the st week; 62s. 6d. per cwt., quoted, spot, d 57s. 6d., c.i.f. per cwt., for shipment. ENNEL.—Indian is unchanged at 75s. per t., spot London, and 67s. 6d. per cwt., .f., London. FENUGREEK. — Declining mand. Morocco is 57s. 6d. per cwt., duty id in London, and 55s. per cwt., ex ore, Liverpool. Indian is quoted at s. 6d. per cwt., spot London.

SENEGA.—Quiet; 11s. per lb. has been ken on the spot; for shipment, 11s. 6d., .f., quoted.

SENNA.—Tinnevelly leaves, spot, No. 1, m 9½d. to 11d. per lb.; No. 2, 7½d. to .; No. 3, 6½d. per lb.; Tinnevelly pods, ected, nominal; ordinary hand-picked, . to 1s.; manufacturing, 5½d. to 6d. exandrian pods, hand picked, spot, from 9d. to 5s. 9d. per lb., nominal; medium ades are offered at from 2s. 6d. to 3s. r lb., manufacturing, 8d.

SHELLAC.—Easier. F.O.T.N., pure, is 2s. 6d. per cwt., spot; F.O. Standard 1, s.; fine orange, 355s. to 400s.

SQUILL.—Italian is quoted at 57s. per t., spot; for shipment, 45s. to 50s., c.i.f.

STYRAX.—Crude is quoted at from 7s. 7s. 3d. per lb., spot, duty paid.

TONKA BEANS.—Trinidad, frosted on the ot, quoted at 7s. 6d. per lb. Pará frosted, 6d. per lb., spot; shipment, 5s. 6d., c.i.f.

TRAGACANTH. — Steady. Selected white bon is £125 per cwt., spot; other white ades are from £65 to £115 per cwt.

TURMERIC.—Madras finger is offered at m 117s. 6d. to 120s. per cwt.; for ship- nt, 95s., c.i.f.

VALERIAN.—Prices are higher. Belgian the spot is now quoted at 225s. per ., but little business reported.

WITCH-HAZEL LEAVES. — Spot supplies offered at 3s. 9d. per lb., duty paid.

Essential and Expressed Oils

ALMOND. — English-expressed sweet oil (B.P.) is from 4s. 6d. per lb.; Spanish is quoted at from 3s. 3d. to 4s. 6d., as to grade. Bitter, on the spot, is from 30s. to 60s. per lb., as to grade.

ANISE. — Prices are in the region of 11s. 9d. to 12s. per lb., spot; for shipment, 11s., c.i.f., quoted.

BAY.—West Indian on spot is quoted at from 6s. 6d. to 7s. 6d. per lb.

BERGAMOT.—Spot quotations are from 32s. to 33s. per lb.

BOIS DE ROSE.—Quotations are from 24s. to 27s. 6d. per lb.; forward 22s. 6d., c.i.f.

CADE.—Spanish oil, B.P., on the spot, is offered at from 3s. to 4s. per lb.

CAJUPUT.—Steady. B.P. is quoted at from 16s. to 18s. per lb., spot.

CALAMUS.—English-distilled is from 100s. to 150s. per lb. Dutch is quoted at from 65s. to 69s. per lb., duty paid.

CAMPHOR.—White oil on spot is quoted at from 2s. to 2s. 2d. per lb., duty paid; brown oil, from 1s. 4d. per lb., spot, duty paid.

CANANGA. — Spot quotations are from 27s. to 30s. per lb.

CARAWAY.—English-distilled is offered at from 36s. to 40s.; imported oils are offered at from 22s. to 27s. 6d. per lb., spot.

CASSIA.—Spot offers are from 16s. 9d. to 17s. 9d. per lb., for shipment, 16s., c.i.f.

CASTOR.—Basic price of pharmaceutical quality is £104 per ton, naked, ex mill.

CHAMOMILE.—English-distilled oil is offered at 22s. 6d. per oz.

CINNAMON.—Steady. B.P. oil, 50s. to 75s. per lb. Bark oil is offered at 12s. per oz. Leaf oil,on spot, from 8s. per lb.

CITRONELLA.—Spot quotations for Ceylon are at from 8s. 6d.; February-March shipment, 8s. 3d., c.i.f., quoted.

CLOVE. — English-distilled bud oil is from 12s. 9d. to 13s. 6d. per lb., according to quantity; Madagascar is from 7s. 6d. per lb. and Zanzibar from 9s. 3d., spot.

GERANIUM.—Firm. Bourbon on the spot is about 95s. to 100s. per lb.; for shipment, 110s., c.i.f., indicated.

LEMON.—Sicilian on the spot is quoted at 24s. per lb.; for shipment, 23s. 6d. to 24s., c.i.f.

LEMONGRASS.—Firm. Spot quotations are from 15s. 6d. to 16s. per lb.; shipment, from 15s. 4½d. per lb., c.i.f.

PALMAROSA.—Spot prices are in the region of 57s. 6d. per lb.; dearer for shipment, 54s. to 56s., c.i.f., indicated.

SANDALWOOD. — Mysore oil on spot, from 70s. to 77s. 6d. per lb.; English-distilled is about 75s. per lb.

SASSAFRAS.—Brazilian is quoted at from 4s. 3d. to 5s. per lb., spot, duty paid.

TRADE MARKS

(From the "Trade Marks Journal," February 1).

For perfumes, hair lotions and dentifrices (3).—"DECOPINE"; by Simoniz (England), Ltd., London, W.6; 675,586.

For non-caustic detergents and soap powders (3).—"ARCASON"; by Arcason Co., London, N.W.10; 678,757.

For hair dyes (3)—"IMEDIA PLUS"; by Eugene Schueller, Paris; B680,598.

For cosmetic powder boxes for personal use (3),—"PATINA"; by Adie Brothers, Ltd., Birmingham; B680,949.

For detergents and soap (3).—"METAMET" and "TRIGOMET"; by Joseph Crosfield & Sons, Ltd., Warrington; 682,466 and 682,585.

For pharmaceutical preparations (5).—"EUNAGAMIN"; by Bayer Products, Ltd., London, W.C.2; 678,698. "GLENCO"; by Carter Bros., Shipley; B678,706. "GELATROS"; by Gade Laboratories, Ltd., London, S.W.1; 682,358.

For medicated preparations for use in the treatment of chilblains (5).—"ERUC" in distinctive lettering; by Douglas Harry Blanchard, Lincoln; 679,878.

For medicated preparations for the feet (5).—"CHIROPAK"; by William Gordon Overfield, Salford; B682,868.

For crepe bandages (5).—"AEROCREPE"; by C. R. Harker, Stagg & Morgan, Ltd., London, E.1; 682,930.

For pharmaceutical preparations; infants' and invalids' foods (5).—"HYLASE"; by Benger's Ltd., Ipswich and Holmes Chapel; 683,341.

For analgesic preparations (5).—"DISPRINE"; by Reckitt & Colman, Ltd., Hull; 684,168.

For insecticides, fungicides and weed-killing preparations (5).—"AVENTOX"; by Pest Control, Ltd., Bourn; 684,206.

For scientific apparatus and instruments (9).—"PHYSIONIC"; by Charles Samuel Townsend, Ickenham; 663,364.

For envelopes of water-proof paper or of cellulose derivatives for the reception of discarded medical and sanitary dressings (16).—"SANSAC"; by Una Evelyn Amery, London, S.W.1; 681,511.

For non-medicated toilet paper (16).—"NUVENTIA"; by Brady, Walters & Co., Ltd., London, N.19; 682,970.

(From "The Trade Marks Journal," February 8).

For chromium oxide (1).—"KROMEX"; by the Union Oxide & Chemical Co., Ltd., London, E.C.3; 659,453.

For industrial, scientific and photographic chemicals (1).—"PICTOGRAPH"; by Pictorial Machinery, Ltd., London, W.1; 669,044.

For agricultural and horticultural chemicals and manures (1).—"P.P." in circle device made from the words "A PLANT PROTECTION PRODUCT"; by Plant Protection, Ltd., Yalding; 671,163.

For agricultural and horticultural chemicals (
—"DICOTOX"; by May & Baker, Ltd., Dagenha
682,714.

For non-medicated toilet preparations (3)
"L'ORIGAN DE COTY" in distinctive lettering;
Coty (England), Ltd., London, W.1; 667,7
"COCKTAIL TIME"; by F. W. Hampshire & C
Ltd., Derby; 682,148. "BOIS DES ILES";
Parfums Chanel, Ltd., Croydon; 682,469.

For all goods (3).—"AROMIST"; by Industr
Humidifiers, Ltd., Leicester; 682,662.

For non-saponaceous detergents (3).—"N
BATRIC"; by Nesbitt & Trickett, Chesterfie
683,431.

For saponaceous detergents (3).—"SYNTHASOPE
by Naylors Stores, Cambridge; 683,998.

For all goods (5).—"ENTREPON" and "TU
CILEX"; by Imperial Chemical (Pharmaceutical
Ltd., Slough; 676,805 and 680,449. "PROVASC
LON"; by The British Drug Houses, Ltd., Londo
N.1; 681,296. "ANGLOPHYLLON"; by Camd
Chemical Co., Ltd., London, W.C.1; 681,507.

COMING EVENTS

Monday, February 20

FINCHLEY DIVISION, NORTH LONDON PHARMACEU
CAL ASSOCIATION, Bull and Butcher, Whetst
(Totteridge Corner), at 7.45 p.m. Mr. R. Job
son on "Perfumery."

ISLE OF THANET BRANCHES, NATIONAL PHARM
CEUTICAL UNION, and PHARMACEUTICAL SOCIET
Ambassadeur's Restaurant, Turner Street, Ran
gate, at 8 p.m. Mr. J. Wright on "N.H.
Problems."

WEST KENT and SOUTH-EAST METROPOLIT
BRANCHES, PHARMACEUTICAL SOCIETY, Green M
Hotel, Catford, London, S.E.6, at 8 p.m. Joi
meeting. Mr. A. H. Walters on "The Comb
of Cross Infection."

Tuesday, February 21

NORTHAMPTON PHARMACISTS' ASSOCIATION, Wed
wood Café, Northampton, at 7.15 p.m. Mr.
Beavan, Ph.C., on "The Riddle of Allergy
(illustrated).

Thursday, February 23

DUNDEE AND EAST AND CENTRAL SCOTTISH BRANC
PHARMACEUTICAL SOCIETY, Mather's Hotel, Whit
hall Place, Dundee, at 7.30 p.m. Dr. J. Rog
on "Recent Advances in the Treatment of Sk
Diseases."

WEST HAM ASSOCIATION OF PHARMACISTS, Bu
House Restaurant, Aldwych, London, W.C.
at 6 for 6.30 p.m. Annual dinner and dan
Ticket (25s.).

REGISTERED PHARMACISTS' UNION, 55 Russ
Square, London, W.C.1, at 8 p.m. Annu
meeting.

NORTHUMBERLAND AND DURHAM CHEMISTS' GOL
ING SOCIETY, Crown Hotel, Newcastle-on-Tyn
at 6.30 p.m. Annual meeting followed
dinner.

The LONDON CHEMISTS' GOLFING SOCIETY
holding its annual dinner and dance at the Troc
dero Restaurant, London, W.1, on March
Tickets (30s. each) from the Secretary, 47 Gray
Inn Road, London, W.C.1.

Milton Denture Powder is an immersion type cleaner suitable for all types of denture—including acrylic bases and teeth.

Its high oxygen content, coupled with good wetting and emulsifying properties, ensure ready removal of mucus, food debris and tobacco stains.

Tartar is softened, enabling it to be removed without the aid of abrasives.

Milton Antiseptic Ltd., John Milton House, London, N.7

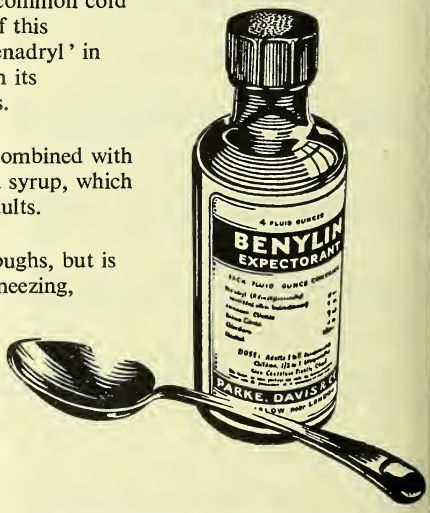
'BENYLIN'

Expectorant

The ability of 'Benadryl' to relieve the cough and other distressing symptoms associated with the "common cold" represents still another clinical application of this remarkably versatile drug. The value of 'Benadryl' in controlling these symptoms is connected with its antispasmodic and bronchodilator properties.

In 'Benylin' Expectorant, 'Benadryl' is combined with proved expectorants in a raspberry-flavoured syrup, which is readily acceptable to both children and adults.

'Benylin' Expectorant not only relieves coughs, but is also effective in alleviating nasal stuffiness, sneezing, lachrymation and bronchial congestion.



Dosage: Adults: 1-2 *teaspoonfuls.*

Children: ½-1 *teaspoonful.*

P.A.T.A.

In 4, 16 *and* 80 *fl. oz. bottles.*

M.R.P. (Including P.T.): 3/8*d.* 11/7½*d. and* 55/-.

Each fluid ounce contains:

'Benadryl'	80 mgm.
Ammonium chloride	12 grs.
Sodium citrate	5 grs.
Chloroform	1½ mins.
Menthol	1/10 gr.

PARKE, DAVIS & COMPANY

HOUNSLOW, MIDDLESEX

Telephone: Hounslow 2361 (11 *lines*). *Inc. U.S.A., Liability Ltd.*

CROOKES

FATA

Winter BONUS LINES

During the winter months the following lines will be offered on Bonus Terms of 13 to the dozen.

LACTO-CALAMINE LOTION

4 oz. bottle retails at 2/9d., including P.Tax. Parcel A — 1 bottle to the dozen on orders for 3 dozen. Parcel B — 14 to the dozen on orders for 6 dozen.

FERROMALT

4 oz. bottle retails at 2/3d., 8 oz. bottle retails at 4/-, exempt P. Tax.

IODINE OIL*

1 oz. bottle retails at 2/5d., 4 oz. bottle retails at 7/4d., including P. Tax.

VITAMIN QUOTA CAPSULES*

Vial of 28 retails at 5/-, 100 at 15/-, exempt P. Tax.

SCALP LOTION* (Plain or Oily)

6 oz. bottle retails at 3/1d., including P. Tax.

GLYCO-KARVOLENE

4 oz. bottle retails at 1/10d., 16 oz. bottle retails at 5/6d., including P. Tax.

EMULSION*

8 oz. bottle retails at 3/-, exempt P. Tax.

** Showcards available.*

THE CROOKES LABORATORIES LIMITED
PARK ROYAL LONDON N.W.10

IN MATTERS CONCERNING FEMININE HYGIENE...

SHE LOOKS TO *you* FOR PROFESSIONAL ADVICE

The responsibility to give professional advice when called upon has placed pharmacy in a position of high esteem and it is a service especially valued by women. When it is a question of family limitation it is always wise to suggest a Rendells Product. As pioneers of the chemical contraceptive we can now offer a range of preparations to suit every individual requirement

RENDELL PESSARIES
RENDELL GELS
RENDELL-FOAM
RENDELL-CREAM

Rendells

PRODUCTS FOR FEMININE HYGIENE

W. J. RENDELL LTD · HARDWICK HOUSE · 161-5 ROSEBERY AVENUE · LONDON E.C.1

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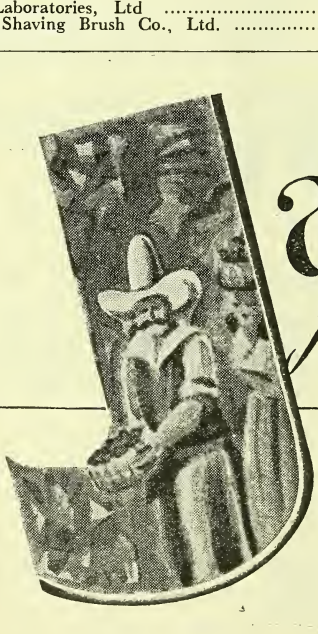

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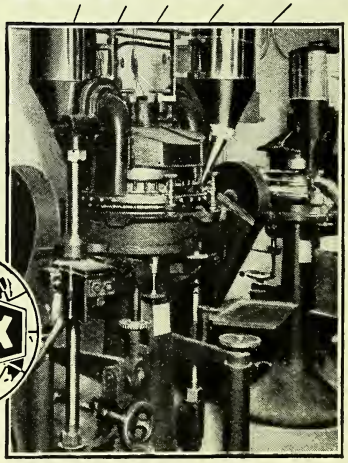

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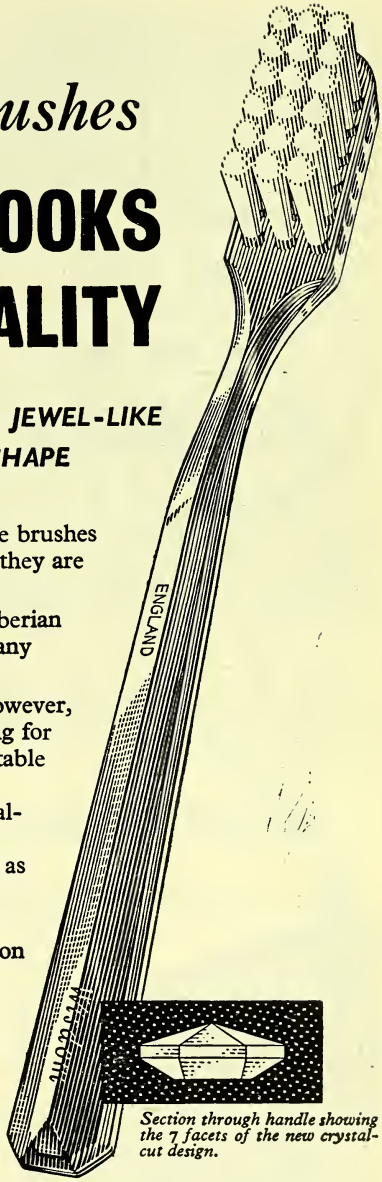

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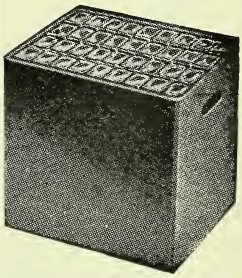

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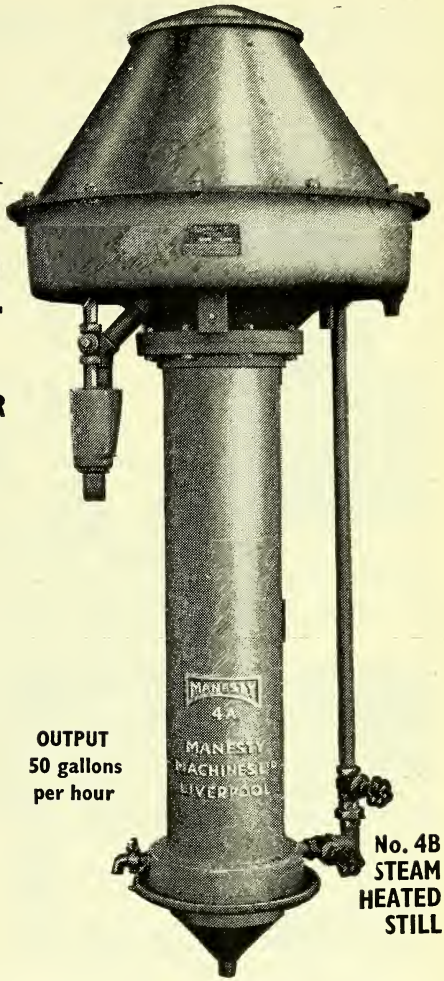

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- MOTHAKS are known everywhere as the really effective moth damage preventive.
- Sales are backed by the biggest advertising campaign.
- Send for supplies early and display MOTHAKS before Spring Cleaning Time.
- Showcards and leaflets gladly supplied on request.
- MOTHAK sales are profitable sales.

Sole Makers:

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BRUSHWARE
of distinction

THE BABY'S OWN BEAUTY BRUSH

Soft Rubber Cushioned Hairbrush with Fine Nylon Tufts

This newly designed babies' brush sells on sight. Baby will enjoy the gentle caress of its soothing touch

Supplied in beautiful pastel shades.
Retail price 4/6 inc. tax.
29/6 per doz.

ORDER NOW

★ See further advertisements for other models

Insist on the best for bigger sales. Therefore order Wyrex Hairbrushes in all styles

Write for price list and illustrated brochure of other models

OAKFIELD & COMPANY
Manufacturers and Exporters
WHIELDEN HO., WHIELDEN STREET, AMERSHAM, BUCKS

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WOMEN DEMAND LIPSTICK

LIPSTICK DEMANDS LIP-COTE

Every customer for lipstick is a customer for LIP-COTE! LIP-COTE, colourless and quick drying, keeps lipstick in its proper place—it cannot smear and won't rub off. Nationally advertised. Send *NOW* for showcards, display material and details of attractive terms to:

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LIP-COTE
for
SMEARPROOF LIPS

VINE'S BONUS OFFER!

ALL THE FOLLOWING LINES WITH THE EXCEPTION OF BIOCRIN POMADE SHAMPOO ARE SUPPLIED

***13* TO THE DOZEN**

4 DOZEN LOTS OF ANY ONE LINE QUALIFY FOR A BONUS OF 6 UNITS INSTEAD OF 4

PRICE LIST

		Retail Price	Per Doz.	TAX
KALORAFILL HAIR FOOD (Ordinary or for Oily Scalp)		6/6	27/-	100%
BIOLOGICAL TONIC OIL (Red & Blue)	Medium Size	4/6	18/-	100%
	Large Size	8/6	34/-	100%
SCURF LOTION (Emulsified)		3/6	21/-	33⅓%
YOUNG FOLKS SHAMPOO		2/6	15/-	33⅓%
Biocrin POMADE SHAMPOO (Ordinary or Blue) Jars or Tubes	Medium Size	3/-	18/6	33⅓%
	Large Size	5/-	30/-	33⅓%

Available from all leading Chemists' Sundriesmen. Wholesale enquiries invited—contact your usual supplier or write for price list direct to:

VINE'S BIOCRIN LTD., 222/224 Harrow Road, Paddington, W.2. Telephone: CUN 1172/3/4

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F.C. 7.18

News from DALMAS of Leicester

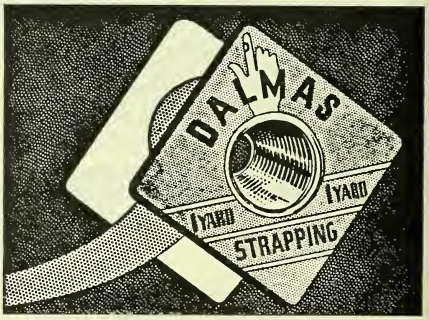
New waterproof adhesive strapping

Supplies increased to meet heavy demand

Demand is already heavy for Dalmas Strapping, a new plastic adhesive that has the great advantage of being absolutely *waterproof*. Because of this, supplies have been greatly increased.

Especially suitable for tiny cuts, sore places, torn finger nails, etc., Dalmas Strapping gives 100% protection against water, dirt, grease and acid. In particular, it is ideal wherever a bandage would be awkward. Because Dalmas Strapping stretches *all* ways, edges stick tight while allowing free movement of joints and muscles.

Dalmas Strapping is skin-coloured, hardly shows. Attractive sell-outs contain twelve 1/- spools, each 1 inch by 1 yard, price 8/-; or 24 spools, price 16/-. Special quantity discounts. Also in 3 yard lengths, and in 2″ and 3″ widths. PLACE YOUR ORDER NOW!



Dalmas Strapping stretches all ways, is ideal for places where a bandage would be awkward

DALMAS BOIL PLASTERS
A new *waterproof* protective dressing for boils. Skin-coloured, hardly shows. Handy boxes, price 10d. retail, including tax.

DALMAS HEEL DRESSINGS
A *waterproof* dressing that is specially designed for sore and blistered heels. Handy boxes, price 1/- retail.

DALMAS FINGER-TIP DRESSINGS
A new *waterproof* adhesive protection for cracked, cut or sore finger-tips. Handy boxes, price 1/- retail.

Dalmas First-Aid Dressings

Dalmas, a *waterproof* plastic dressing, provides a totally new method of protecting cuts and minor wounds. Like Dalmas Strapping, Dalmas First-Aid Dressings give complete protection against water, dirt, grease, acid—you can actually *wash with them on!* Edges stick tight, can't fray, can't catch in clothes. Dalmas lessens infection risk, promotes safe and easy healing.

Your customers will look for this blue and white box.

Blue-and-white counter sell-outs containing three dozen 1/- boxes, price 8/- per dozen.

A. de St. Dalmas & Co. Ltd.

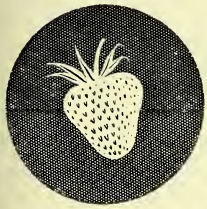
Leicester (Leicester 65261)

London Depot: 140-142 St. John St., E.C.1 (Clerkenwell 3399)

Leeds Depot: 14 Neville Street (Leeds 29764)

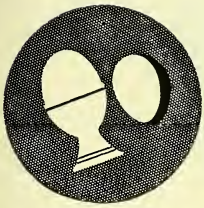
Scottish Agents: Robert Telford, 29 Waterloo Street, Glasgow, C.2 (Central 2716)

a new anti-histamine



ADVANTAGES

Low toxicity: prolonged action: relative freedom from side-effects.



DOSAGE

From 50-100 mgm. daily (1 to 2 sugar-coated compressed products).

PACKING AND PRICES

Bottles of 25 (6/- plus 1/6 purchase tax) and 500 (102/- plus 25/6 purchase tax). Further information on request.

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dl-1-(*p*-CHLOROBENZHYDRYL)-4-METHYL-PIPERAZINE MONOHYDROCHLORIDE

BURROUGHS WELLCOME & CO., 183-193, EUSTON ROAD, **LONDON**

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You can always depend on the high standard of quality that is consistently maintained.

Supplies are now available of a full range of —

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all dressed up and somewhere to go

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We could not improve the high standard of Howards Chemicals but we have redesigned some of the containers. These new attractive counter packs in various colours will help you more easily to focus attention on this already well established range.

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Sodium Bicarbonate, B.P. Epsom Salts, B.P. Glauber's Salt, B.P.	4 oz., 8 oz., & 16 oz. drums.
Boracic Acid B.P. crystals Boracic Acid B.P. powder Purified Borax, B.P.	2 oz., 4 oz., & 8 oz. drums.

All these lines are being despatched to wholesalers from March 1st onwards.

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The PEARSON Liquid VACUUM FILLING MACHINE

- RAPID
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- NON-DRIP
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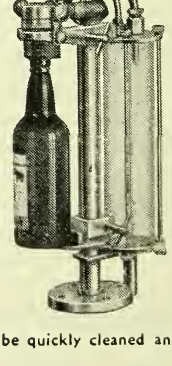

The "PEARSON" Liquid Filling Machine can be operated by unskilled labour. It is easily adjusted for different sizes of bottles, etc., almost any of which can be rapidly filled with fluid without spill or drip.

The machine can be quickly cleaned and sterilized.

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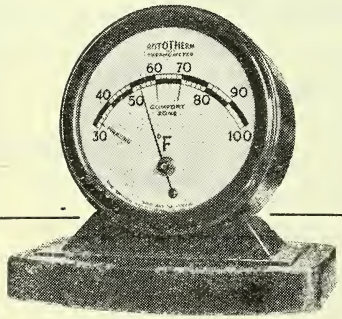

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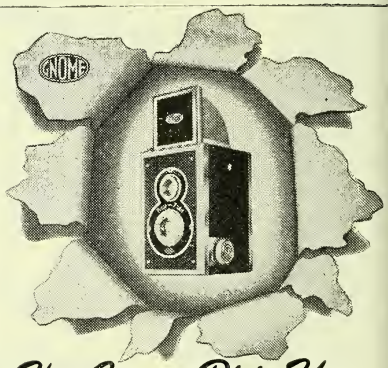

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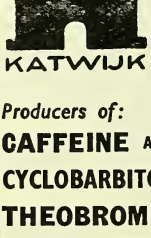

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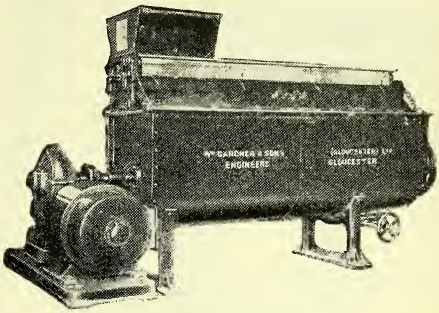

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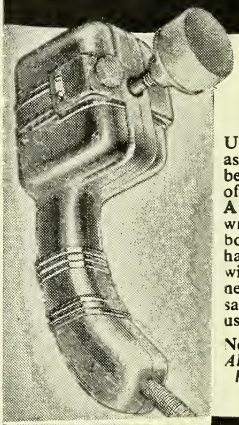

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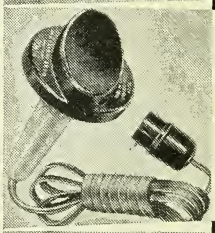

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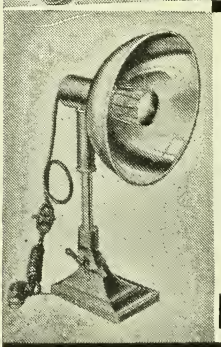

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FOR THIS SEASON'S INCREASED EGG PRODUCTION

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Write for details and prices.

Goodall's WATERGLASS

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GOODALL, BACKHOUSE & CO., LTD.
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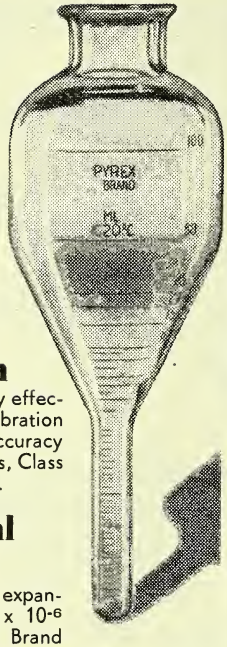
(29T*)

PYREX Brand Graduated Glassware gives the research worker



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A simple but highly effective method of calibration ensures absolute accuracy to N.P.L. Standards, Class A or B as required.

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A co-efficient of expansion of only $3{\cdot}2 \times 10^{-6}$ allows of PYREX Brand Graduated Glassware being made thicker and more robust.

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PYREX Brand Graduated Glassware is highly resistant to all acids except hydrofluoric and glacial phosphoric.

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PYREX Brand Graduated Glassware is supplied only through Laboratory Furnishers, but illustrated catalogue and two free copies of our Chemist's Notebook will be sent direct on application to us.

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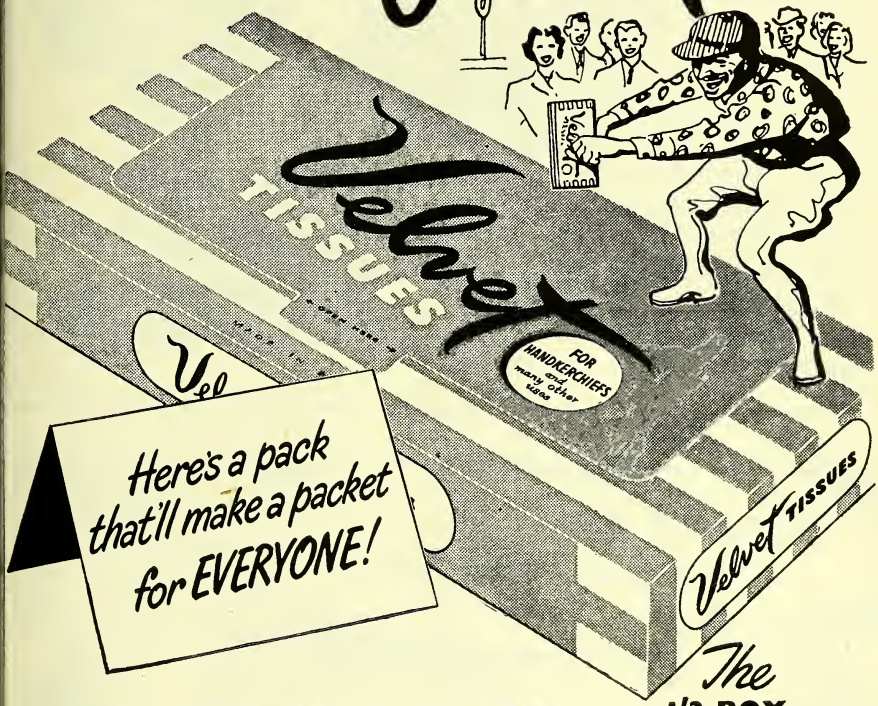
You're on Velvet



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. . . BOLD - ATTRACTIVE - COLOURFUL
The pink candy-striped VELVET pack is designed to speed turnover. It displays well and possesses an irresistible sales-appeal.

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. . . AND BIGGER VALUE
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VELVET TISSUES ARE TODAY'S FINEST VALUE!

The **1/3 BOX**
contains 100 (50 x 2 ply) top quality tissues

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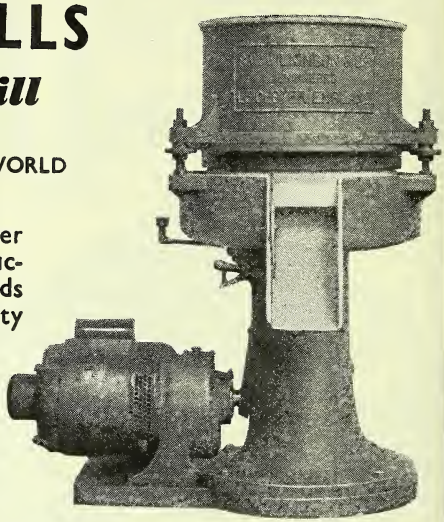
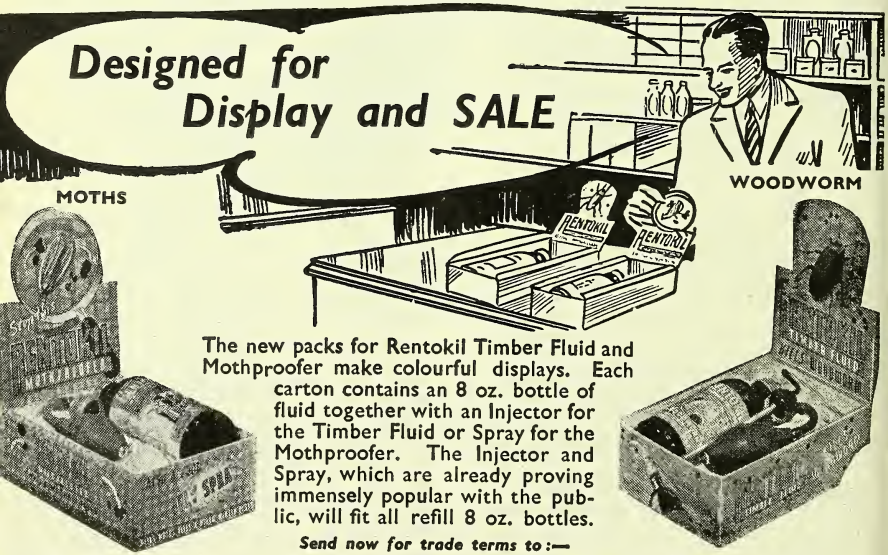


Designed for Display and SALE



The new packs for Rentokil Timber Fluid and Mothproofer make colourful displays. Each carton contains an 8 oz. bottle of fluid together with an Injector for the Timber Fluid or Spray for the Mothproofer. The Injector and Spray, which are already proving immensely popular with the public, will fit all refill 8 oz. bottles.

Send now for trade terms to:—

RENTOKIL LTD

DEPT. C.D., SCHOOL LANE, FETCHAM, SURREY

Tel: Leatherhead 4021/2

what a lot of *SUPER SPONGINESS!*

ponges for toilet. Sponges for the house. ponges that lap up water like a desert. Soft, ilky, even-textured. Hard-wearing and hygienic. n happy colours. E.R.C. know all the secrets of naking super sponginess in long-lasting sponge ubber. Show "Zote" and "Zulu" sponges—hey will sell fast!

ZOTE and ZULU *Sponges*

Expanded Rubber Company Limited

ERC
SUBSIDIARY OF
THE BRITISH XYLONITE COMPANY LTD

675 Mitcham Road : Croydon

'PHONE: THORNTON HEATH 3622 WORKS: CROYDON & DUNDEE

T.A. 3042

Special Introductory Offer of 14 to the DOZEN

ON THE NEW HANDY SIZE PACKING OF

RHYSO-VAL

VALERIAN DRAGEES

in return for counter display

1 doz. RHYSO-VAL (25's) costs	13 . 0
1 doz. RHYSO-VAL (25's) sell at (plus P.T. 4/4)	19 . 6
2 only ,, ,, Bonus sell at	3 . 3
	£1 . 2 . 9

PROFIT 9/9

on an outlay of **13/-**

Available in SALES-COMPELLING, TWO-COLOUR DISPLAY OUTERS OF 1 DOZ. TUBES retailing at 2/- per tube, including Purchase Tax.

NATIONAL AND MEDICAL PUBLICITY WILL CREATE LARGE DEMANDS FOR THIS NEW PACKING.

MANUFACTURED BY

COATES & COOPER LTD

PYRAMID WORKS · WEST DRAYTON · MIDDLESEX

C&C TRADE MARK

Take it from me these products **PULL THEIR WEIGHT**

Satino

TOILET TISSUE

Satino Toilet Paper in rolls and Interleaved Super soft in boxes —Backed by Nation wide publicity.

KWICK-DRY

HOUSEHOLD TOWELS

A Boon to every housewife. Supplied (Perforated) in rolls. Further details from address below.

Details and Samples can be obtained from the manufacturers:

FREEDER BROTHERS PAPER MILLS
Brimsdown · Enfield · Middlesex
Telephone: HOWard 1847 (5 lines)
Telegrams: Sylkocrepe, Enfield, Middlesex

VETERINARY COUNTER PRACTICE

10th Edition 1949

A new edition of this invaluable book is now available. A new Supplementary section devoted to the veterinary applications of the Sulphonamides and of Penicillin has been included, together with useful formulas and other matters of practical pharmaceutical importance. Indispensable to the rural pharmacist, profitable to the town pharmacist, this book provides up-to-date information in concise form.

15/- *postage* 6d.

Send Remittance to:

THE CHEMIST & DRUGGIST
28 ESSEX STREET, STRAND, LONDON, W.C.2

LIFEGUARD
LEAFLETS

speed up repeat sales

- ADVERTISED MOST
- DISPLAY BEST
- SELL FASTEST

LIFEGUARD LEADS

REGD. TRADE MARK

to healthier profits for you

LIFEGUARD PRODUCTS LTD., 21 WATLING ST., E.C.4.

A MOVING PICTURE..

Hiltone's popularity makes it a ready seller and this year's increased press advertising will ensure bigger-than-ever sales. Hiltone's famous slogan "as light as you like . . . and no lighter" will be seen by millions of women, and country-wide demonstrations will keep Hiltone in their minds. For brightening and lightening the hair to new, natural-looking beauty, Hiltone's controlled action is unequalled. Stock Hiltone, display it—you'll sell it.

HILTONE

AS LIGHT **AS YOU LIKE . . . AND** NO LIGHTER

COUNTY PERFUMERY CO. LTD., STANMORE, MIDDLESEX

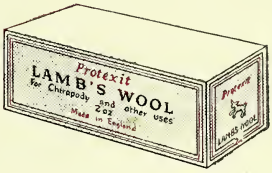
royde &

IF IT'S SOMETHING PROTECTIVE THEN MAKE SURE IT'S

Protexit

TRADE MARK

These are some of our Protexit range of sundries which are recommended for both quality and price.



***Protexit* CORN PLASTERS**

In buff printed cartons. Twelve cartons in display outer

Thin **4/6** doz. cartons
Thick **5/3** ,, ,,

***Protexit* EYE SHADES**

In buff printed cartons. Either eye, right eye, left eye

3/3 doz.

***Protexit* FINGER STALLS**

In attractive envelopes, printed in two colours

Best leather, Ezyfit type **8/-** doz.
Tnumb Stalls, Ezyfit type **8/6** doz.

***Protexit* LAMB'S WOOL**

In cartons as illustrated

½ oz. **3/9** doz.	4 oz. **22/6** doz.
1 oz. **6/9** doz.	8 oz. **39/-** doz.
2 oz. **12/-** doz.	16 oz. (*tax free*) **75/-** doz.

***Protexit* WRIST STRAPS**

Supplied in attractive envelopes, printed in two colours

Twice round	**18/6** doz.
Twice round felt lined	**18/6** doz.
Gripsit	**21/-** doz.
Double buckle	**18/-** doz.

PROMPT ATTENTION GIVEN TO SPECIAL POST ORDERS

All goods carriage paid in free packages

MACDONALD & SON LTD.

HOPE MILLS, POLLARD STREET, MANCHESTER, 4 Ardwick 1561-2

New advertisements in leading magazines mean that EVERY STOCKIST can profit from Andrex toilet tissues

Supplies of ANDREX are now better and demand will be stimulated by these new advertisements drawing attention to the merits of this unique super-soft tissue. The difference between Andrex and other tissues is so remarkable that once it is tried it is always asked for again. Soft, hygienic, soluble—there is nothing better for children and those with sensitive skins. It is going to pay you to stock and recommend Andrex. Send for a sample and you will agree that it is the purest, softest toilet tissue you have ever seen. Don't make it difficult for new customers to find Andrex—make sure that they see it displayed in your shop.

ANDREX

SOFT AND GENTLE

TOILET TISSUE

WHOLESALE ONLY

ST. ANDREW MILLS LTD., WALTHAMSTOW, E.17

PHONE: LARKSWOOD 1014-5-6

U·M·P
THE SIGN OF SERVICE AND CO-OPERATION

Discriminating buyers prefer U·M·P Metal Tubes

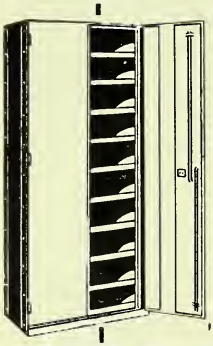
Smooth flexible applicators specially developed in our PLASTICS DIVISION *for rectal and vaginal use*

UNIVERSAL METAL PRODUCTS LTD.
SALFORD 6 LANCS. *Telephone:* PENDLETON 1631-2-3
LONDON OFFICE: ARGYLE HOUSE, 29/31, EUSTON ROAD, N.W.1.

STORAGE MADE SIMPLE

"SECO"

STEEL STORAGE EQUIPMENT FOR FACTORIES & STORES



Seco Storage Equipment is suitable for, and adaptable to, all storage requirements giving maximum storage capacity to available floor space. A Standard Seco Unit is available to meet your every storage need. We are always pleased to submit designs and specifications to meet a customers particular requirements.

Send for list C.D.,

THE STEEL EQUIPMENT CO., LTD.
GREETS GREEN, W. BROM., STAFFS
'Phone: TIPton 1137-8-9 'Grams: Equipit, West Bromwich

SAVE TIME...

Seal your packages this QUICK, EASY WAY

An inch or two of self-adhesive *Transotape*, a flick of the finger . . . and your package is sealed cleanly, smartly and securely. *Transotape* mends, strengthens and protects. It's pilferproof. You can have it *printed* — and what a good advertisement! You can write on it. In colours to identify poisons and special drugs. Economical . . . you get 2,592 inches on a roll.

PAYS TO SELL

Ask about Transotape *Mini-rols for selling to your customers.* Every home a potential user. In lovely colours, 180 inches to the roll.

transotape puts EXTRA profit on your turnover

Samples and prices gladly

John Gosheron & Co Ltd Gayford Road London W12
(Chemist Service Section)
PW 17/49 Britain's Tapographical Specialists since 1909

WILES VITAMIN dogfood

IS FULL OF GOODNESS

and it sells on sight

RETAIL PRICE

This quality dog food contains concentrated meat, liver and fish. It is packed in handy airtight tins, attractively labelled in red and black, and specially designed for easy stacking and display.

Bright attractive showcards and window bills are now available.

Order your supplies of Wiles Vitamin dog food through your usual Wholesaler.

Made exclus by WILES WOODMAN E. YORKS

The finest dog food in the world

JAMES COX & CO.

D.D.T. WORKS, SOUTH HARROW, MIDDX.

Wish to thank the 12,000 Pharmacists who stock their artistic D.D.T. Parrots and the original D.D.T. Flypapers for their generous co-operation during 1949, a record year.

100% IMPREGNATED D.D.T CARDS

You know **COX'S** *are —*

THE ORIGINAL
THE BEST SELLER
NATIONALLY ADVERTISED
HAVE A TWO YEAR LIFE

ARTISTIC—EFFECTIVE—THE BEST

New and attractive lines shortly available for 1950 • Excellent show material stocked by all wholesalers • Generous discounts • Trade enquiries welcomed from wholesalers and retailers

We impregnate hundreds of tons of card and paper for Showcards, Shelves, Mothproof Wardrobes, etc. Trade enquiries invited

THEY DO KILL FLIES

Please write:

COX & CO.

D.D.T. WORKS, 368 NORTHOLT RD., SOUTH HARROW, MIDDX.

SOL-TAN

... Foremost in the relief of pain

This is one of the finest Infra-Red and Radiant Heat Models in the "Sol-Tan" range. It is the result of careful development and design and embodies the highest quality materials and workmanship; finished in Cream Enamel and Chromium Plated Fittings.

The finger-tip adjustment of this well-balanced apparatus is strongly recommended for its application for bed-side treatment in the home; being fitted with built-in switch, 3-Core Flexible, one Long Wave 250 Watt Burner, and one Mixed Wave 400 Watt Burner; supplied in all voltages, A/C or D/C from 50v. to 250v. Complete with Instructions and Treatment Guide.

Cat. No. E.M. 24
SOL-TAN "Master"
£5 2. 0d. plus
24/10d. Purchase Tax

Our new Fully Illustrated Catalogue gladly sent on request.

"Sol-Tan" Marketed for Home and Export by

THE LONDON COMMERCIAL ELECTRICAL STORES LTD
20-23 CURSITOR STREET, E.C.4. • CHANCERY 6488/9

(643 1

IF YOU HAVE RATS GIVE THEM A BISCUIT-

. . . but make sure it's a VEXTERM RAT BISCUIT, not harmful to pets, human beings or farmyard stock, when used as directed, but death to rats and mice. Clean, safe and easy to handle. From Chemists, Ironmongers and Stores everywhere. Price 1/6 & 5/9

VEXTERM

READY-BAITED
RAT BISCUITS

Agriculture and Fisheries Licence No. 10184

Manufactured by
BRITISH RODENT EXTERMINATOR CO. LTD.
PRATTS BOTTOM · FARNBOROUGH KENT
Phone: FARNBOROUGH 849

GET BACK YOUR EMPTY BOTTLES

(MINISTRY OF HEALTH)

WE HAVE LABEL SUPPLIES IN STOCK

AUTHORISED WORDING

ORDER NOW

TOWNSENDS

THE LABEL PRINTERS

EXETER

FOR EVERY MONTH OF THE YEAR

"ZEMS"
HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

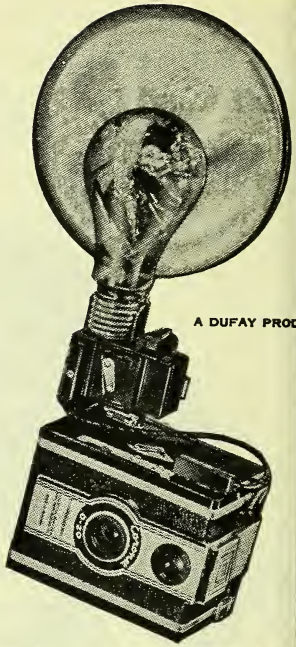
Supplies may be obtained from C.F. Wholesale Houses

ZEMS LTD

718-724 Seven Sisters Road, London, N.15

Telephone: STAMFORD HILL 6658-9

"Winter Photography" means ALL YEAR ROUND Sales



A DUFAY PROD

NEW D20 CORONET
BOX CAMERA
now available for the home market in limited quantities.

BOX CAMERA Retails at only **43/4** Tax paid
FLASH UNIT **36/10** Tax paid

DUFAY-CHROMEX LTD., 14/16 COCKSPUR ST., LONDON, S.W.1 TEL: WHITEHALL

ALWAYS SUPPLY Menex

FOR WOMEN WHO PREFER Soluble TOWELS

★ *Pre-stretched* ★ *Detachable loops*
★ *Waterproof backs*

Manufactured by
ROBINSON & SONS LTD.
CHESTERFIELD & LONDON

ALSO MAKERS OF THE FAMOUS Mene

POPULAR FOR OVER 50 YEARS AND STILL THE FIRST FAVOURITE

QUALITY?
WE BUILT BY IT — WE HOLD BY IT
PHOTOGRAPHIC WORK BY PARAMOUN
SOLVES YOUR TROUBLES
PARAMOUNT PHOTOGRAPHIC D & P SERVI
138 CARDIGAN ROAD, LEEDS, 6

MOSANS PESSARIES
15/- per doz. boxes
any wholesaler

INDIA imports huge quan tities of drugs, fin chemicals, pharma ceuticals, cosmetics, sundries. T reach importers, forg. mfrs. re presentatives and Indian manufac turers (also Pakistan, Ceylon) ad vertise in CHEMIST & DRUGSTOR NEWS. Copy, details free,
31 Hamam St., Bombay, 1
3 London Office:—2/3 Norfolk Street, Strand, London, W.C.2. TEMPLE BAR 4687

Featured above is an advertisement for Scott's Baby Cereal which appears in the current issue of the Radio Times. It is a timely reminder to mothers on the mixed-feeding of infants. Let it also remind you to make sure that you have plenty of stocks of this line.

The Radio Times is the shop window for 7,776,982 families every week. During its 17½-hour day, it is referred to many times by all members of the family. They like and trust the Radio Times and buy with confidence the products it advertises.

Stock and display the goods advertised in the

RADIO TIMES

7,776,982 AVERAGE WEEKLY NET SALE FOR THE FIRST SIX MONTHS OF 1949 MEMBER A.B.C.

Advertisement Department, B.B.C. Publications, Broadcasting House, Portland Place, London, W.1

KEEPS HOTTER—KEEPS COOLER IN A

VACCO

now 5/3 RETAIL

Model S
1 Pint o
Half Litr

The Vacuum Flask of *quality* finish. With a tested refill of *extra high thermal efficiency*. Spare Refills, Cups and Corks are available.

MADE IN ENGLAND

VACCO SALES LTD. 55 PALL MALL, LONDON, S.W.1

Esbron
LUNG TONIC & TROCHES

For Coughs, Colds, Chest and Throat Ailments and also for Asthma and Bronchitis.

There is an ever increasing demand for these, following advertisements in the daily papers.

The cold weather is here, please check your stocks

9/- per doz. Retail 1/4½ each.
3 doz. lots 8/9 per doz.

BROOK, PARKER & Co., Ltd.
ASHFIELD, BRADFORD

DEXTRO AMPHETAMINE SULPHATE

There are ample supplies of

DELLIPSOIDS

DEXTRO-AMPHETAMINE SULPHATE 5 mgm

and

D . 25

DEXTRO-AMPHETAMINE SULPHATE 5 mgm
PHENOBARBITONE 33 mgm (gr-½)

Orders can be met from stock and goods despatche by return of post

Telephone : BYRon 1440/1800
Telegrams : Damancy Harrow

DAMANCY & CO·LTD HARRO MIDD
ESTABLISHED 1890

ARE YOU READY . . .

. . . to take advantage of today's great opportunity? You can make the SevenSeaS advertising work for you — you can use the Welfare Food publicity to build up a new adult market for Cod Liver Oil.

A striking window display will provide the link which turns this growing interest into sales. Make good use of it.

Write today for the two SevenSeaS showcards and for the special display material which will add colour and distinction to your window.

SEVENSEAS

URE COD LIVER OIL

British Cod Liver Oils (Hull and Grimsby) Limited, St. Andrew's Dock, Hull

A Seasonal Reminder—

★ Increasing medical propaganda.

★ Increasing medical publicity during the Winter Season will bring increasing demands for—

AKROTHERM

OINTMENT—*Non-greasy*

A rational and effective local treatment for

Chilblains

Attractive counter display outers of 1 doz. tubes are now available

Tubes (22 gm.) retail 2/6 including tax. ½ lb. jars for dispensing retail 10/-.

Medical literature on request.

FOR A LIMITED PERIOD—
13 TO THE DOZEN

PRIORY LABORATORIES LIMITED
PYRAMID WORKS, WEST DRAYTON, MIDDLESEX, ENGLAND

It's **FERBER'S** *for*

CAPSULES

Makers of

'CALCIVITA'

capsules for the treatment of colds, chilblains and circulatory deficiency.

'VITAMAXA'

capsules—a multi vitamin capsule correcting dietary deficiencies and enabling a properly balanced vitamin intake.

QUOTATION AND FULL DETAILS ON REQUEST

Apiol
Apiol & Ergotine
Blauds
Carbon Tetrachloride
Cascara
Castor Oil
Cinnamon & Quinine
Cod Liver Oil
Copaiba
Creosote
Ergot
Eastons Syrup

Glandular Hormone
Guaiacol
Halibut Liver Oil
Haemoglobin
Hormone
Ichthyol
Malefern
Multi Vitamin
Olive Oil
Quinine
Santal Oil
Vitamins A. B_1 B_2 B_6 C. D. E. K.

In bulk or packed

ROBERT FERBER LTD. CARLTON WORKS · ASYLUM ROAD · S·E·15 Phone: NEW CROSS 023

Special Offer

to introduce

NEW VALDERMA TUBES

10%

DISCOUNT ON ALL ORDERS FOR 3 DOZEN

To introduce new 1s. 6d. size Valderma tubes, you are offered 10% discount in addition to the usual generous terms on all orders for 3 dozen or over, on condition that you display them in their attractive container. Take advantage of this big chance to increase your profits, and give the new Valderma tubes a good display in your window or on your counter. This offer is for a limited period only.

Over 50 million people will see Valderma advertisements in the National Press and Magazines during the next six months. The new 1/6d. tube will be featured in all these advertisements.

Send off your order today to :—

DAE HEALTH LABORATORIES LTD., 17 BERNERS STREET, LONDON, W.1

HEAVILY & NATIONALLY ADVERTISED

P.A.T.A.

Lantigen

SERIES OF DISSOLVED ORAL VACCINES

In less than 12 months, widespread National Advertising and personal recommendation have firmly established the LANTIGEN series of Dissolved Oral Vaccines in this country, after 12 years' success in Australia. LANTIGEN is on the P.A.T.A. list, and retails at 25/8d. per bottle, (inc. P.T.). Descriptive leaflets and terms on request.

LANTIGEN 'A' for the Common Cold.
LANTIGEN 'B' for Catarrh and Bronchitis.
LANTIGEN 'C' for Rheumatism of germ-born origi
LANTIGEN 'D' for Staphylococcal Skin Infection
LANTIGEN 'E' for Hay Fever and Asthma.
LANTIGEN 'F' for Whooping Cough.

Supplies direct from Sole Distributors:
J. C. GAMBLES & CO. LTD., 211, BLACKFRIARS ROAD, LONDON, S.E.1
or from Wholesale Chemists.
Manufactured by: LANTIGEN (ENGLAND) LTD., BAGSHOT, SURREY

It's easy to make sales once; it's getting customers back again and again that makes good business. Here's a line which does it. Spicers A1—a first-class soft tissue, properly medicated, in a generous-size roll, at a reasonable price. That's what shoppers call value—and that means business for you. Order through your wholesaler.

SPICERS LTD. 164 UNION STREET, LONDON, S.E.1. Tel: Waterloo 5871

Scripts for these ethical products are being written NOW

INTENSIVE propaganda to the Medical Profession has resulted in greatly increased prescribing of the following GADE LABORATORIES products :

PENICILLIN GELATROS—

stable *gelatin-base* penicillin pastilles each containing 500 units penicillin (sodium salt). Packed in vials of 12 pastilles.

CHONEX—

dehydrocholic acid tablets for use in biliary disease. Packed in tubes of 20 and bottles of 100 and 500.

E.L.A—

Emulsion Lactobacillus Acidophilus, an ideal vehicle for acidophilus therapy. Bottles of 12 fl. oz.

ALL Dispensing Chemists should stock Penicillin Gelatros and Chonex. E.L.A. should be ordered as required. Detailed literature sent with pleasure to any Pharmacist. Orders and enquiries for Gade Laboratories products should be sent to the Sole Selling Agents: J. C. ENO LIMITED, WATFORD, HERTS. (Watford 7761).

GADE LABORATORIES LTD

WATFORD HERTS

Camelia

SOLUBLE TOWELS

Increased advertising in National and Women's magazines means that more women are asking by name for Camelia now. Make sure that your stocks are adequate.

PRICES

STANDARD (LOOPS)

Wholesale	Retail	Per Pkt.(dozen)
14/1d. doz. pkts.	16/3d. doz. pkts.	1/9d.

STANDARD (LOOPS) - 6 IN PKT.

Wholesale	Retail	Per Pkt.
7/0½d. doz. pkts.	8/1½d. doz. pkts.	10½d.

STANDARD (Loops) are packed in cartons containing 48 packets.
STANDARD (6 in packet) are packed in cartons containing 72 packets.

Approved by the Central Price Regulation Committee, July, 1948.

CHAPPELL, ALLEN & CO. LTD.,
87-91 NEW BOND ST., LONDON, W.1
Telephone: MAYfair 6571-2.

Camelia

WELL KNOWN FIRM OF TOILET ROLL AND INTERLEAVED PACKET MANUFACTURERS (Factory LONDON) WITH MODERN PLANT WILL ACCEPT ORDERS, FROM ESTABLISHED FIRMS, AT VERY KEEN PRICES FOR 6 oz., 7 oz. and 8 oz. MEDICATED TOILET ROLLS. TOILET ROLLS CAN BE BANDED WITH HIGHLY GLAZED BANDS—2/3 COLOURS TO CUSTOMERS OWN DESIGN. ANY WORDING DESIRED CAN BE PRINTED ON EACH SHEET.

Box No. C. 5446

dirty work to be done?

THE BEST BARRIER PREPARATION

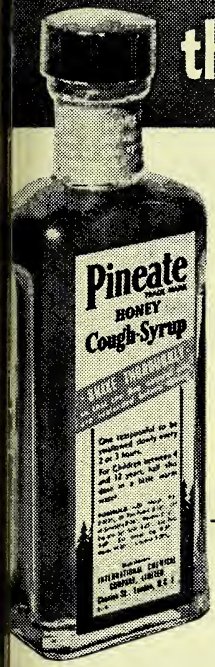
ROZALEX

IT STOPS DIRT FROM GETTING INTO YOUR SKIN

ALSO ROZALEX OINTMENT

Rozalex Ltd., 10 Norfolk St., Manchester

Make 'PINEATE' the centre of this month's £10 PARCEL ★



'Pineate' Honey Cough-Syrup is the nice way to tackle a nasty cough and children love it! Make sure you have stocks to meet February and March demands for a winter cough mixture for children.

ATTRACTIVE SHOW MATERIAL IS NOW AVAILABLE

TRADE TERMS

Selling Price (Inc. P.T.) 1/11 each
Trade Price (Exc. P.T.) 13/9 per doz.
Purchase Tax - - 4/7 per doz.

ALL I.C.C. LINES QUALIFY FOR THE FULL CO-OPERATION DISCOUNTS

£10 and over . . . 12½%
£5 and over . . . 10%

PICK YOUR £10 PARCEL FROM THESE PRODUCTS :—

PINEATE · ANADIN · ANNE FRENCH · BISODOL · BISURATED MAGNESIA
FREEZONE · KOLYNOS · LYSTONE SALTS · REUDEL BATH SALTS

★ **YOUR SELLING PRICE = £13 6s. 8d.**
YOUR OUTLAY £10 LESS 12½% = £8 15s. 0d.
YOUR PROFIT = £4 11s. 0d.

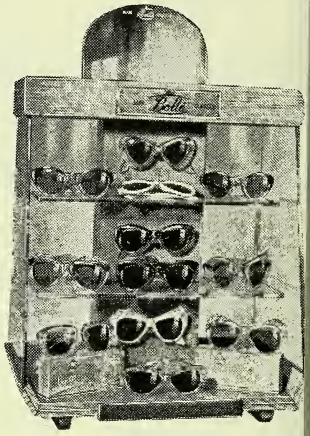
Pineate Honey Cough-Syrup

TRADE MARK

The International Chemical Co. Ltd., Chenies Street, London, W.C.1

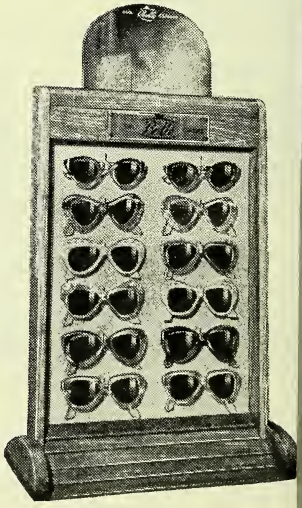
Bollé

Sun Glasses



. . . most attractively presented in our new and exquisitely designed

Show Cases



will stimulate your Sales

Limited supplies of these new Display Cabinets for the 1950 Season are available FREE through certain selected Distributors. *Write for details.*

An extensive ADVERTISING CAMPAIGN in the Women's Magazines and Fashion Journals during the Spring and Summer will increase the demand for BOLLÉ Sun Glasses.

Retailers should place their orders immediately to avoid disappointment.

THURGAR BOLLÉ (Successors) LTD

ORIENT HOUSE · WELLINGBOROUGH · NORTHANT

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.

Whiffens Alkaloids and Fine Chemicals

ATROPINE
BROMOFORM
CAMPHOR
CAFFEINE
DYE-LINE CHEMICALS
EMETINE
NICOTINIC ACID
PRUNELLA
QUININE
STRYCHNINE
THEOBROMINE
CLOVE OIL
ALMOND OIL
EXT. IPECAC. LIQ.
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